

Synopsys Championship 2023

Master Project List

Loc.	Code	Proj Num	Team	Field	Gender	Students	Title
15-49	B35	061-210-91		PlantSci	F	Zana Svendsen	The Effect of Certain Mycelium on the Growth of Spinach
15-50	A25	061-220-51		PlantSci	F	Keyaa Shah	What is the effect on plant germination and growth of soaking time in 3% hydrogen peroxide?
15-51	G50	061-230-11		PlantSci	M	Thiyagesh Venkatesan	Effect of Common Compostable Household Waste on the Quality of Vermicomposting
15-52	H95	061-250-A1		PlantSci	F	Mridini Parui	Magic Mulch
15-53	J62	061-260-61		PlantSci	M	Ayan Arora	Reducing World Hunger: Growing a Superfood for under a \$1
15-55	C17	061-310-H2	T	AnimalSci	F	Mika Perl & Roni Leshem	The Evening Walk: Friend Or Foe Of Dog's Night Sleep.
15-56	C22	061-610-B1		MedHeaSci	M	Fauzaan Ahmed	The Effect of UV light on DNA (Yeast Colony Growth)
15-57	G44	062-A10-E1		Chemistry	M	Yarden Amara	Water Purification affordable cup- cup to filter dirty water at home / outdoor
15-58	F24	062-A30-61		Chemistry	M	Riddhiman Deshmukh	Electrolyte Insight
15-59	A57	062-A40-21		Chemistry	M	Noel Steve Jesu Mahibha	Effect of Electronegativity on Electricity
15-60	G63	062-A50-F1		Chemistry	F	Tamar Savransky	The Lip Paint Project
15-63	J44	062-A60-B1		Chemistry	M	Rishaan Saini	Time to dissolve pills
15-64	H83	062-A70-71		Chemistry	F	Sanjana Iyengar	What is the effect of different types of plant based organic bio coagulants on filtering of microplastics in contaminated water?
15-65	G43	062-B20-21		CheEnvEng	F	Alisa Solnit	Nickel test kit for Jewelry - Kit to detect nickel presence for people with allergy or irritation .
15-66	H50	062-B30-F1		CheEnvEng	M	Ajay Jagadish	An Efficient Household Direct Air Capture (DAC) System that Removes Carbon Dioxide to Mitigate Climate Change
15-68	H13	062-B40-A2	T	CheEnvEng	M	Amit Boiman & Oren Schwarz	Endothermic Water Bottle Cooler
15-69	B69	062-C10-F1		EarEnvSci	M	Emaan Talukdar	Can Grey Water be an Alternative Solution for the Drought Stricken California Farmlands?
15-70	C20	062-C20-B1		EarEnvSci	M	Malek Alhussien	Evaluating the carbon footprint of raising backyard chickens
15-71	C21	062-C30-71		EarEnvSci	F	Zoya Tufail	Which protective material is the most effective on roughly handled objects during shipping and handling?
15-72	A23	062-C40-31		EarEnvSci	F	Shanya Gill	Prevention of Casualties and Property Damage due to Home Fires by Using Thermal Imaging and AI Based Occupancy Detection
15-73	G80	062-C50-G1		EarEnvSci	F	Morgan Hankins	The Great Purification
14-74	H61	062-C60-B2	T	EarEnvSci	F	Deethya Viswa & Anya Gote	Climate Crisis
14-73	A52	062-D10-71		PhysAstr	M	Emmanuel Swenson	What is the effect of metal type on electromagnetic field strength, as observed by measuring the speed of a magnet train
14-72	D30	062-D20-31		PhysAstr	F	Aasiyah Siddiqui	What is the Effect of Different Brick Strength on Mars?
14-71	K75	062-D30-G1		PhysAstr	M	Charan Peddinti	What is the Effect of Fertilizer on Plant Growth?
14-70	B53	062-E10-G1		ElecEng	M	Arjun Surendra	Smart Water Usage Alert System (S.W.U.A.S.)
14-69	I24	062-E30-81		ElecEng	F	Dhanyaa Chakravarthy	Power Shake
14-67	G42	062-F10-72	T	MechEng	F/M	Juan Bermeo & Isadora Rothstein	Sandout shoe- a shoe that can let the sand out by opening a zipper that's attached to the bottom of the shoe.
14-66	H37	062-F20-41		MechEng	M	Vihaan Narkhede	The Sunlight Router
14-64	D28	062-F30-G2	T	MechEng	M	Zyad Elwazeer & Yusuf Attaras	A Hybrid Solar and Wind Renewable Energy-Designed Motorized Vehicle for the 21st Century
14-63	J81	062-F40-D1		MechEng	M	Korey Latimer	Touchscreen Interaction Automation

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14-60	H65	062-F50-91		MechEng	M	Samarth Iyer	Sir Eatalot
14-58	H71	062-H10-82	T	SoftEng	M	Anant Doshi & Adhvik Krishna	Healthy Snack Detector using AI
14-57	G20	071-210-B1		PlantSci	F	Aditi Badriprasad	Statistical Analysis of the Effect of Varying N-P-K Ratios on the Vertical Growth of Nannochloropsis Oculata Algae
14-54	E16	071-211-82	T	PlantSci	M	Neel Gowda & Aayush Upalekar & Dawud Ayub	Ripeness of Potatoes
14-53	C81	071-220-71		PlantSci	M	Aarush Vashi	The Effect of Gravity and Air Pressure on Plant Growth
14-52	I10	071-230-31		PlantSci	F	Lucy Cui	What is the effect of the circadian rhythm on the color change(measured in RGB pixel color value) in leaves in plants?
14-51	J49	071-240-G1		PlantSci	F	Sanvi Kannoori	Hydroponics
14-50	I62	071-250-C1		PlantSci	F	Sophie Tong	Investigating the Effect of Environmental Temperature on CO2 Absorption Rate During Photosynthesis
14-49	I54	071-260-81		PlantSci	M	Nevaaan Rajaram	What is the effect of natural coagulants on the reclamation of greywater for plant irrigation?
13-49	I37	071-270-41		PlantSci	F	Nila Santhosh	What are the effects of soil moisture and watering methods on water conservation and plant growth?
13-50	J23	071-280-H1		PlantSci	M	Ahroon Bhalla-Levine	From Poop to Plant: Is Snail Waste a Better Fertilizer Than Traditional?
13-52	G79	071-290-C2	T	PlantSci	F _M	Unaysah Ron & Omar Ron	What is the Effect of Varying Hydroponic Substrates on the Growth of Wheatgrass?
13-53	I27	071-320-G1		AnimalSci	M	Danny Stein	Can mealworms compost different types of foam, and what type of foam is composted the fastest.
13-56	E22	071-410-B2	T	BiocheMic	F	Hasini Kandula & Harshika Manapragada & Ruhi Kelkar	What is the Effect of Algae in Waters Contaminated by Roundup, a Glyphosate-Based Herbicide?
13-58	G40	071-420-72	T	BiocheMic	M	Dan Pozniansky & Ben Balteriski	How do the percentages of fat in milk affect its spoiling time
13-59	H69	071-430-41		BiocheMic	M	Aiden Yang	What is the effect of pH on Bacterial Growth?
13-60	I13	071-440-H1		BiocheMic	M	Orin Mukherjee	How different chemicals impact your teeth
13-63	E84	071-450-D1		BiocheMic	M	Isa Hasan	Effect of Variances in Natural versus Artificial Light on Effectiveness of Hydroponic Farming
13-64	A24	071-610-D1		MedHeaSci	F	Adithi Badrinarayanan	At Home Peripheral Vision Tester
13-66	C44	071-620-91		MedHeaSci	M	Ahmad Fallah	Investigating the Efficacy of Traditional Brushing Methods to Maintain Oral Hygiene
13-67	F42	071-630-51		MedHeaSci	M	Rohan Pal	Observing the effects of different levels of CBD on curing cancer in Drosophila model.
13-68	H70	071-660-A1		MedHeaSci	F	Ashraya Siruvole	Building a Wearable Device to Measure Parkinson's Tremors
13-69	H74	071-670-61		MedHeaSci	F	Mrida Chegondi	Water Treatment Product for Austere Environments
13-70	H67	071-710-51		BiomedEng	F	Arisha Jain	Heartrate Monitor
13-71	A53	072-A10-G1		Chemistry	M	Ruhaan Banerjee	The Science of Boba (Fett)
13-72	A22	072-A20-C1		Chemistry	F	Cynthia Wang	What is the effect of different temperatures and different chemicals on the setting time of concrete?
13-73	I69	072-A30-81		Chemistry	F	Devshree Mistry	Colorful Chromatography
13-74	I61	072-A40-41		Chemistry	M	Purab Shah	Eggs and Osmosis
12-74	A58	072-B11-61		CheEnvEng	F	Mridula Rajagopalan	Water as Energy Source: On-demand electricity using H2 from electrochemical electrolysis of water using GaAl electrodes.
12-71	E27	072-B20-32	T	CheEnvEng	M	Saarang Venkatesh & Sarvesh Sinha & Ethan Nguyen	The Humidity Extraction Box
12-69	I22	072-B21-12	T	CheEnvEng	M	Nithin Satish & Pradyun Krishna Naidu	Blissful Buoys

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12-68	D18	072-B30-H1		CheEnvEng	M	Umar Khan	Effect of Gels on Improving the Efficiency of Photovoltaic Panels
12-65	I32	072-B31-E2	T	CheEnvEng	F _M	Hajin Jeon & Hajun Jeon & Vienna Li	Creating A Biodegradable Sponge
12-60	E28	072-B40-C2	T	CheEnvEng	F	Claire Hinton & Vanya Goenka & Hunar Kaur	Creating a Device to Sense and Sound an Alarm if Rodents Come Through a Pet Door
12-58	G25	072-B50-82	T	CheEnvEng	F	Netra Khot & Ziya Ahmad	Creating an AI Robot for Collecting and Recognizing Aluminum Cans To Reduce Beach Pollution
12-55	E18	072-B60-42	T	CheEnvEng	F	Anishka Kannan & Sidhiksha Sailesh & Mishali Pandey	Oil Containment Machine.
12-54	G41	072-B70-11		CheEnvEng	M	Ethan Mutchnik	How does the sphere's diameter (size) affect its durability in different surfaces.
12-51	E15	072-B80-D2	T	CheEnvEng	F	Kiyomi Yoshimura & Hua Cheng & Richa Madala	Storm Drain Separator
11-49	E14	072-B90-92	T	CheEnvEng	F	Devyn Tang & Madelyn Keegan & Adwita Ram	Predicting and protecting our forests from wildfires.
11-50	A79	072-C10-H1		EarEnvSci	F	Aanya Kandala	Seeding The Sky
11-51	J66	072-C11-F1		EarEnvSci	F	Maya Mazin	Seaweed And Its Absorption Of CO2 In Worms
11-53	C80	072-C20-C2	T	EarEnvSci	M	Timothy Liu & Austin Li	Wildfire Prediction and Analysis
11-54	H80	072-C21-B1		EarEnvSci	M	Shreyas Geereddy	Solar panels and temperature
11-57	D85	072-C30-82	T	EarEnvSci	F _M	Tristan Ye & Vanessa Dinh & Aahana Nayak	The Effect of Lavender and Lemon Juice as Natural Pesticides
11-58	J41	072-C31-71		EarEnvSci	M	Ojas Prabhune	Predicting areas with high concentrations of forever chemicals using geomarkers
11-63	E20	072-C60-D2	T	EarEnvSci	F	Charlotte Yang & Manasvi Divakaruni & Mahati Srinivasan	Earthquake Resistant Houses
11-64	H90	072-C70-A1		EarEnvSci	M	Ashwath Ram	Can Sound Waves Counter Earthquakes?
11-65	G81	072-C80-61		EarEnvSci	M	Yahya Khan	Collecting the Drops - A Water Sustainability Plan using Mathematical Calculations
11-66	A54	072-D10-91		PhysAstr	M	Adyant Bhavsar	Tap, Tap... Power On!
11-68	G77	072-D20-42	T	PhysAstr	M	Ron Pozniansky & Amitai Socolovsky	How does the power of microwave radiation affect the wave length of the radiation(speed of light)
11-69	D38	072-D30-11		PhysAstr	F	Tiffany Yuan	Pipe Flute: A Simple Music Instrument
11-70	I63	072-D40-E1		PhysAstr	F	Sera John	Sweet Refraction
11-71	H85	072-D50-A1		PhysAstr	F	Kavita Rao	The Effect of Magnetism on Soundproofing
11-72	H86	072-D60-61		PhysAstr	M	Edward Chen	Hit Distance in Relation to Bat Impact Location
11-73	B92	072-E10-11		ElecEng	F	Shruti Dusankar	Hokey, Pokey, Shake, and Generate!
11-74	I78	072-E11-G1		ElecEng	F	Alexis Santosa	Engineering a Squeezing and Sound-Playing Wristband for Autistic People
10-72	E29	072-E20-D2	T	ElecEng	M	Ayaan Khan & Tayson Um & Peter Plodek	Recycling the wasted heat from a light bulb
10-71	I86	072-E21-C1		ElecEng	F	Aditi Panchagnula	Hoopy: Improving Basketball Skills by Detecting and Displaying Scored and Attempted Shots
10-68	E13	072-E30-92	T	ElecEng	M	Aadit Sood & Saharsh Myneni & Ricky Rex Alexias	Auto-following Backpack Carrier to Help Prevent Back Strain and Injuries
10-67	H77	072-E31-81		ElecEng	F	Delisha Manuel	Navigation Device for the Blind
10-66	H32	072-E40-61		ElecEng	M	Spencer Liu	Arduino Vehicle Warning System Using LiDAR Sensor
10-65	H64	072-E41-41		ElecEng	F	Cameron Abedor	Making a Power Generating Ball
10-64	H91	072-E50-21		ElecEng	M	Matthew Zhu	A Design of a Voice Controlled Smart Home
10-60	G35	072-E60-E2	T	ElecEng	M	Kye Elder-Groebe & Siddhanth Venkatesan	The Application of Ultrasonic sensors for assisting the visually impaired(The Visionator)
10-58	I58	072-E70-A2	T	ElecEng	M	Hrithvik Vinothkumar & Jacob Arteaga	Fog handwashing machine
10-57	H76	072-E80-71		ElecEng	F	Saloni Nehru	Designing a Wind Turbine
10-54	I21	072-E90-22	T	ElecEng	M	Amogh Bhat & Samvrith Ganesh & Matthew Lin	Energy From Fire And Ice
10-53	A49	072-F10-A1		MechEng	M	Kiyan Raisinghani	The Hydraulic Advantage
10-52	J43	072-F11-81		MechEng	F	Sahana Shyam	3 in 1 Generator - Using Solar, Wind, and Water Power

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10-51	B18	072-F20-61		MechEng	M	Silas Chao	Does the Type of Band-Aid Really Matter?
09-49	I29	072-F21-32	T	MechEng	M	Kabeer Mehta & David Clark & Kanishk Jain	The Seed Spreader
09-52	E21	072-F30-12	T	MechEng	M	Arhaan Swaminath & Vansh Bahety & Akhil Munipalle	Carbon Reducing Transportation
09-55	D84	072-F40-E2	T	MechEng	M	Aman Puri & Noah Song & Kourosh Shahid	Smart Trash Can
09-58	E17	072-F50-A2	T	MechEng	F	Allysa Domensino & Avni Vohra & Kalliana Flora	Designing Houses to Withstand Earthquakes
09-59	H62	072-F60-71		MechEng	M	Jayden Arciniega	Advanced Solar Tracking System
09-60	H68	072-F70-31		MechEng	M	Eric Guo	Effect of different ratios of sand and cement on concrete strength
09-63	I64	072-F80-G1		MechEng	M	Deshan Ma	Engineering A Suitable Protection Against Falls
09-64	I81	072-F90-C1		MechEng	M	Aayush Trivedi	DriveSafe: A Smart Autonomous Vehicular System
09-65	C38	072-H10-B1		SoftEng	F	Zahra Nahvi	Designing And Building An App To Reduce The Difficulty Of Recycling
09-66	K64	072-H11-91		SoftEng	F	Aavya Mishra	Investigating the fidelity & impact of AI language translation towards inclusivity in linguistically diverse communities
09-68	C36	072-H20-71		SoftEng	F	Zeba Nahvi	Building a Fire-Fighting Robotic System
09-69	H60	072-H21-51		SoftEng	F	Talya Bingol	Programming a delivery drone
09-71	G74	072-H30-22	T	SoftEng	M	Vivaan Kathapurkar & Charandeep Killamsetti	Hand Gesture Controlled Wheelchair
09-72	J59	072-H31-11		SoftEng	F	Ishika Nelaturu	Viral Immunity through Codon Optimization: A Comparative Analysis of Genomic and Viral Data
08-74	E30	072-H40-F2	T	SoftEng	F	Swathi Ravikumar & Yusra Suleiman & Saachi Todur	Heat Sensing Fire Extinguishing System
08-73	H81	072-H50-C1		SoftEng	M	Anchit Nayak	Detecting Food Rotting using Raspberry Pi 4 and Deep Learning
08-72	I76	072-H60-81		SoftEng	F	Manasvini Singh	A Better Understanding of Water Consumption Using Machine Learning
08-71	H75	072-H70-41		SoftEng	M	Nissangh Mohan Babu	Virtualzoolive.com: Website for Zoo Cameras Around the World
08-70	I36	072-H80-H1		SoftEng	F	Inika Adapala	Communication App for Patients with Locked-in Syndrome
08-69	I12	072-H90-D1		SoftEng	F	Shiqi Dai	Chinese Chess AI
08-66	C46	081-210-C2	T	PlantSci	F	Aashi Verma & Lahari Chebrolu & Hannah Allas	Comparing the Effects of a Generic Fertilizer, to a Mix of Natural Substitutes of the Chemicals Found in the Fertilizer
08-63	C60	081-220-82	T	PlantSci	F/M	Azalea Bieber & Mateo Espinal & Sofia Lukac	Mitigating the Effects of Climate Change for Crop Production Optimization on Pea Plant Growth
08-59	C98	081-230-42	T	PlantSci	F	Cynthia Wang & Elaine Zou	Alternative Sources of Nitrogen for Use in Chemical Fertilizers.
08-57	G45	081-240-H2	T	PlantSci	F/M	Helena Liang & Cam Krause	Effect of Supplements on Bamboo Growth
08-56	B84	081-310-51		AnimalSci	F	Abigail Wang	The Effects of Nano-Antioxidants and Environmental Stress on Learning and Memory using a Planarian Model
08-54	D91	081-320-H2	T	AnimalSci	F	Heather Wang & Ellie Zhou	What is the effect of different frequencies of noise pollution on the level of mate attraction of Gryllodes sigillatus?
08-53	K62	081-330-E1		AnimalSci	F	Carina Gross	AVIAN: Aerial Video Identification Automated Network-Novel Machine Learning to Monitor Bird Population by Flight Pattern
08-51	C41	081-420-92	T	BiocheMic	F	Risa Chokhawala & Trisha Shivakumar	What are the effects of chemical compounds on soil antibiotic resistance?
08-50	A33	081-430-61		BiocheMic	M	Zia Svendsen	The Effect Of Capsaicin On Yeasts And Molds
07-49	C55	081-440-12	T	BiocheMic	M	Amey Garg & Connor Lin	What are the effects of adding different materials in mud to alter energy outputs using a microbial fuel generator?
07-50	F54	081-450-F1		BiocheMic	M	Atharva Manjunath	Investigating the Inhibition Mechanism of Alpha-Amylase by Bioflavonoids
07-51	F67	081-460-B1		BiocheMic	F	Joyce Yang	Mushroom Extract as a Bactericide

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07-53	D11	081-470-62	T	BiocheMic	F _M	Armaan Khatri & Divya Bhupathi	The determination of successful biodegradation by white rot fungus on plant based fabrics
07-54	C96	081-610-F1		MedHeaSci	F	Caroline Zhou	What is the impact of agricultural fertilizers on the health of daphnia populations?
07-55	E33	081-620-B1		MedHeaSci	F	Phoebe Lee	What is the effect of different spices and temperatures on E. coli K-12?
07-56	A51	081-630-71		MedHeaSci	F	Sahithya Sridharan	The Biggest Loser
07-57	H25	081-640-31		MedHeaSci	F	Shripriya Kalbhavi	The Effect of Phytochemicals Present in Spices on the Inhibition of Tumor Growth induced by Agrobacterium tumefaciens
07-58	C67	081-650-G1		MedHeaSci	F	Kashish Kapoor	Using Machine learning to better classify different stages of Alzheimer's Disease
07-59	J32	081-660-C1		MedHeaSci	M	Ishaan Sinha	Understanding The Impact of Clothing on Protecting Us From Harmful UV Radiation
07-63	D92	081-710-62	T	BiomedEng	F	Anya Bharti & Nicki Yazdi	SFDIPS - Smart Fall Detection and Injury Prevention System
07-66	C86	081-720-22	T	BiomedEng	F	Vani Nair & Rebecca Mathew & Caitlin Dosch	Making a Device to Detect Abnormal Muscle Movements in Limbs to Predict Clonic Seizures?
07-67	C13	081-740-C1		BiomedEng	M	Tarek Aref	Predicting Stroke using Machine Learning
07-68	H10	081-750-81		BiomedEng	F	Spandana Chimmalagi	RiPi Bot: A Novel System That Combines Modern AI Technology and Ancient Ayurvedic Techniques
07-69	C35	082-A10-11		Chemistry	F	Maryam Hashmi	The Effect of Bile Salts On Digestion
07-71	C99	082-A20-D2	T	Chemistry	F	Aanya Aggarwal & Audrey Hu	The effects of different solvents on the viscosity of paint.
07-73	D90	082-A30-92	T	Chemistry	M	Aaron Luo & Yash Belani	The effect of a pH level decrease on liquids containing casein
07-74	G87	082-A40-61		Chemistry	F	Dalia Saal	Can Argon Flushing a Fridge Reduce Food Waste?
06-74	I57	082-A50-21		Chemistry	F	Haripriya Ramakrishnan	Smart Responsive Materials
06-73	J70	082-A60-F1		Chemistry	F	Nitya Verma	The Effect of Electrolysis on Soil
06-72	A29	082-B10-A1		CheEnvEng	M	Sudhanva Belur	The Attenuating Effect of Brassica Juncea on the Reduction of Soil Toxicity Induced by Cadmium
06-71	H89	082-B11-81		CheEnvEng	F	Jeanelle Dao	FilterEye: Energy-Saving Embedded Electronic Device to Alert User to Change Air Filter
06-68	C71	082-B20-52	T	CheEnvEng	F	Aanya Agrawal & Anwitha Aruva & Kriti Dwivedi	Using A Piezoelectric Transducer Underneath A Road To Generate Electricity Via Car Stoppage
06-67	A60	082-B21-41		CheEnvEng	F	Anika Ganu	Charging Green
06-64	C64	082-B30-12	T	CheEnvEng	F _M	Jonathan Tran & Kai Peng & Taha Nawaz	Coastal defenses against storm surges, erosion, and flooding.
06-63	I59	082-B31-H1		CheEnvEng	F	Tisha Prasad	Eco-friendly Papermaking
06-60	E74	082-B40-F1		CheEnvEng	M	Tarun Reddy	Household Carbon Capture Device
06-58	C74	082-B60-62	T	CheEnvEng	M	Brian Le & Jerry Ge	Plant-Inspired Water Filter
06-56	B97	082-B70-22	T	CheEnvEng	F	Nicole Dean & Aanya Sharma	Edible Utensils: The Step above Silverware!
06-54	C15	082-B80-F2	T	CheEnvEng	F _M	Nirav Adavikolanu & Nithya Kanamarlapudi	What is the Effect of Various Shields on Coastal Flooding?
06-52	C73	082-B90-B2	T	CheEnvEng	M	William Jiang & Ian Lee	Moist Meter
06-50	B67	082-C10-12	T	EarEnvSci	F	Elizabeth Zhang & Claire Tian	What is the effect of using matted hair on oil spills?
06-49	C12	082-C20-F1		EarEnvSci	M	Mouaaz Aly	Marine Gardens: A Possible Solution for Ocean Acidification
05-49	C14	082-C30-B1		EarEnvSci	F	Atifa Mohamed Sulthan	Pyrolysis:The Effect on Soil Microbes due to Global Warming
05-51	C75	082-C40-62	T	EarEnvSci	F	Raeanne Li & Iona Liu	The effect of landscaping groundcovers on the growth of different drought-tolerant plants
05-52	J96	082-C50-31		EarEnvSci	M	Michael Lau	Filtering Microplastics and Biological Impurities with a Home-Built

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05-54	D10	082-D10-A2	T	PhysAstr	M	Xianyao He & Colin Li	Self-Cleaning System Using Nanomaterials
05-55	B93	082-E10-31		ElecEng	F	Diana Bajdechi	What is the effect of changing the materials of a budget tennis racket to imitate a more established racket?
05-56	J33	082-E11-11		ElecEng	F	Ellanya Sivasubramaniam	Breathing Sensor for Remote Medicine
05-59	C61	082-E20-F2	T	ElecEng	F	Areha Shah & Sadhana Arun & Selina Yum	Liberate: A device to assist stroke patients, with a speech impediment, to communicate effectively with ease.
05-60	H56	082-E21-E1		ElecEng	F	Trisha Srivastava	Piezo Power - Creating and Testing the Efficiency of Piezoelectricity from Daily Movement
05-65	C87	082-E30-B2	T	ElecEng	F _M	Trisha Sharma & Shreyan Jain & Kimai Dosch	Candle Power
05-66	H97	082-E31-A1		ElecEng	F	Sneha Arun	Using Water Quality Sensors To Sort And Recycle Used Water
05-69	E87	082-E40-72	T	ElecEng	F	Yihan Ran & Avantika Sawant & Catherine Huynh	The Heat Mapper: A device to measure albedo
05-70	J56	082-E41-61		ElecEng	M	Vincent Su	Generating Electricity Using Runoff Rainwater Produced by Gutters
05-73	C57	082-E50-32	T	ElecEng	F	Meena Swaminathan & Gabrielle San Luis & Irina Bohidar	Using drag from the wind of moving cars to generate electricity
05-74	G49	082-E51-21		ElecEng	M	Aarav Daftary	Establishing a way to find if non-handicapped people park in handicapped parking
04-72	G22	082-E60-G2	T	ElecEng	F _M	Sophie Woo & Anaina Shettin & Matthew Yang	Hydrominder
04-71	I87	082-E61-F1		ElecEng	M	Pavlo Tkach	Rainwater Collecting Watering System
04-69	H49	082-E70-D1		ElecEng	M	Krishna Bhatt	How Does Distance and speed of scanning affect the output quality of a 3D Scanner
04-68	G34	082-E71-B1		ElecEng	F	Arshia Gopal	A Wearable Auto-balance Device to Prevent Falling for People with Balancing Issues
04-67	A78	082-E80-91		ElecEng	M	Anish Roy	Conserving water using Internet controlled water pressure regulator
04-66	J84	082-E90-51		ElecEng	M	Shreesh Basu	Smart Greenhouse
04-64	B78	082-F10-B2	T	MechEng	F	Claire Xu & Venice Parnell	Pos-Chair: An Easy Attachment to Encourage Good Posture
04-63	B59	082-F20-81		MechEng	F	Ananya Mehta	The Future of Clothing: Turning Waste into Vegan Leather
04-59	B75	082-F21-52	T	MechEng	M	Raj Akunuri & Kevin Chen	An Automatic Enforcer For Special Traffic Zones
04-58	D17	082-F30-41		MechEng	M	Eli Kozodoy	How different geometrical patterns on the sole of a basketball sneaker improve tractional performance
04-56	B86	082-F40-G2	T	MechEng	M	Spencer Mo & Hengrui Liang	The Safer Outlet
04-55	H23	082-F41-F1		MechEng	M	Dylan Zuo	Backpack Adjusters 2.0
04-52	C58	082-F50-C2	T	MechEng	M	Vihaan Parikh & Eshaan Sharma & Cassien Delmas	A Novel Approach to Mitigating Biking Accidents Using an Anti-Lock Braking System
04-51	J60	082-F51-B1		MechEng	F	Sharanya Chudgar	Bike Bumper: A Novel Machine-Learning Based Bike Safety System to Decrease Bike Accidents on the Road
03-49	C56	082-F60-82	T	MechEng	M	Djoni Muresan & Rajiv Tirumala & Abhiram Cherukupalli	Solar-Tracking Litterterminator
03-51	C76	082-F61-62	T	MechEng	F _M	Nathan Yee & Brandon Labio	A Novel Machine To Help in the Battle Against Respiratory Diseases
03-54	C70	082-F70-42	T	MechEng	M	Rahul Pamulapati & Kyle Schwartz & Teghvair Singh	PathFinder: A Smart Retrieval Robot for Optimal Sports Training Efficiency
03-57	C65	082-F80-H2	T	MechEng	M	Rig Saini & Nicholas Nguyen & Adiyat Ahsan	Improving Shopping Line Efficiency by Modifying Shopping Carts
03-59	E70	082-F90-D2	T	MechEng	F _M	Evan Yuan & Anika Basu	Making an Automatically Dispensing Oil Boom to Contain Oil Spilled From Oil Tankers
03-60	E68	082-H10-D1		SoftEng	M	Anish Kosaraju	The Effects of Wallet Materials on Radio-Frequency Identification
02-60	J16	082-H11-B1		SoftEng	M	Shashwath Dinesh	Using Machine Learning to Detect Validity of Login Attempts to Prevent Account Takeovers
02-59	D88	082-H20-91		SoftEng	M	Siddhartha Daswani	A Pair of Smart Glasses to Aid the Visually Impaired Using Object Detection with Raspberry Pi
							Fire Spread Prediction

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Loc.	Code	Proj Num	Team	Field	Gender	Students	Title
02-58	F16	082-H21-71		SoftEng	F	Nyantra Mohan Babu	Help the Needy: Solution to Poverty, Hunger, and Homelessness
02-57	G14	082-H30-51		SoftEng	M	Ethan Liang	Developing Machine Learning Models for Glaucoma Detection through Retinal Image Processing
02-56	J97	082-H31-31		SoftEng	F	Sarah Qamar	Green transportation solution for connecting large population centers in California
02-55	J36	082-H41-G1		SoftEng	F	Sanika Das	eLetter
02-54	B63	082-H50-E1		SoftEng	F	Orchita Chakraborty	Prognosis of Alzheimer's Disease using Machine Learning and The Virtual Brain
02-52	C97	082-H60-92	T	SoftEng	M	Nikhil Bawa & Rohan Goyal	A Novel Method of Detection for Pulmonary Embolisms Using Machine Learning Technology
02-51	J15	082-H70-61		SoftEng	M	Ethan Effendi	Detecting and Correcting Harmful Stimuli in Video Content to Provide Safer Viewing Experiences to Photosensitive People
02-50	J52	082-H80-21		SoftEng	M	Andrew Li	The Power of Voice: A Speech Analytics Application using Artificial Intelligence and Natural Language Processing
02-49	I82	082-H90-F1		SoftEng	F	Zaria Shahabdeen	Guide Glass for the visually impaired
15-01	C27	091-210-E2	T	PlantSci	F _M	Amanda Jin & Andrew Hong & Isaiah Sit	Measuring the effects of multiple pharmaceutical and personal care products on the growth rate of three Algae species
15-03	E53	091-410-G1		BiocheMic	F	Aditi Vaduri	Efficacy of Botanical Herbs in Ameliorating Metal Ions Through Mediated Oxidative Stress in Alzheimer's Disease
15-04	B34	091-420-C1		BiocheMic	F	Amitha Inturi	How Does the Gut Bacteria Lactobacillus Acidophilus React to Common Food Preservatives?
15-05	E35	091-510-81		BioInfo	F	Danielle Steinbach	A Genomic Study of CTCL and a New Method of Integrating Spatial Proteomic & scRNA-seq Data to Discover Cancer Biomarkers
15-06	G53	091-530-H1		BioInfo	M	Saket Pathak	Early Detection of Rheumatoid arthritis using Image Classification
15-08	I28	091-550-82	T	BioInfo	F	Anika Mukherjee & Reva Ukkadam	Utilizing Machine Learning Models to Predict the Malignancy of Mammographic Masses based on BI-RADS Attributes and Age
15-09	J82	091-560-51		BioInfo	F	Shruti Patel	Simulating Reality Monitoring and Recall Quality of Real vs. Imagined Memories
15-10	L11	091-580-E1		BioInfo	F	Yuin Ma	Building a CNN model to efficiently diagnose COVID-19 from other viral infections using cough MFCCs
15-13	C23	091-620-C2	T	MedHeaSci	F	Sanika Vaidya & Riddhi Maharana & Ava Chen	Measuring the effects of iron in water on the cloudiness of the cornea
15-14	C72	091-630-91		MedHeaSci	M	Advaith Anand	Detection of Parkinson's disease using breathing signals
15-18	K76	091-640-51		MedHeaSci	F	Lisa Jing	Preventing Chronic Athletic Injury: The Effects of Gymnastics Exercises on Knee, Ankle, and Back Stress
15-19	D13	091-710-91		BiomedEng	M	Nishant Pitta	Using a Deep Neural Network and Signal Processing On Human Speech to Detect Dysarthria Disorder
15-21	C89	091-720-42	T	BiomedEng	F	Sahithi Cherukuri & Sahana Anamika	Telemedicine by Auscultation: Cardiovascular Differential Diagnosis by a Cloud-based Deep Learning Intelligent System
15-22	H28	091-740-E1		BiomedEng	F	Lily Shi	Developing a Novel Diagnostic System of Glaucoma Using a Multi-Task Deep Learning Architecture
15-23	I52	091-750-A1		BiomedEng	M	Jai Satrawada	Creating a Personalized Musical Therapy Plan for Mental Health Conditions Using a Supervised Machine Learning Model
15-24	I97	091-760-61		BiomedEng	M	Charan Sridhar	Detection of Pulmonary Embolism using an Ensemble Model Based on Neural Networks of EHR Data and CT Scans

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Loc.	Code	Proj Num	Team	Field	Gender	Students	Title
15-26	I46	091-770-12	T	BiomedEng	F/M	Saathvika Sripathi & Aayush Sharma	Identifying Various Kinds of Cardiac Diseases Through an Automated ECG Analysis
15-27	J91	091-780-F1		BiomedEng	M	Atrey Wadikar	ImmuneBoost : Holistic health app
15-28	L23	091-790-B1		BiomedEng	M	Aryan Ganesh	Detection of Parkinson's using novel SNN model and develop closed loop wearable device for tremor monitor & suppression
15-29	D51	092-B10-C1		CheEnvEng	F	Nandana Maheskumar	Weather Agnostic Farming: An Innovative Revenue Generating System to Protect Crops from Extreme Weather
15-34	E97	092-B20-72	T	CheEnvEng	F/M	Sharon Lu & Jerry Li & Archan Mulay	The Design and Construction of a Greywater Recycling System with Automatically Interchangeable Recycling Methods
15-36	D56	092-B30-32	T	CheEnvEng	M	Kairui Sun & Cyrus Ghane	A Novel Utilization of Ocimum basilicum Mucilage to Reduce Nitrate Runoff
15-39	C34	092-B40-G2	T	CheEnvEng	F	Amrita Ramabadrán & Ankita Ramabadrán & Rebecca Han	The design and construction of a household water conservation system
15-41	E77	092-B50-D1		CheEnvEng	F	Reeva Patel	Implementing Machine Learning-based cameras to inform us of the mountain lions threatened population in California.
15-42	G92	092-B60-91		CheEnvEng	F	Sanskriti Kamaraju	A Smart Leakage Detection System via Infrared Sensing and Deep Learning
15-43	B50	092-B70-51		CheEnvEng	F	Varini Kadakia	Drone based system to improve pollution using inexpensive materials
15-44	I89	092-B80-11		CheEnvEng	M	Aadrit Talukdar	Predicting Air Quality Based on Climate Factors in Various Geographical Locations Utilizing Artificial Neural Networks
14-44	C63	092-C20-H1		EarEnvSci	F	Aneesha Janbandhu	The effects of using natural materials for greywater filtration on plant growth.
14-43	F30	092-C30-D1		EarEnvSci	M	Viraj Pandey	Enhancing crop yields using quantum dots for Terrestrial, Martian, or space-bound human biomes
14-42	E90	092-C40-91		EarEnvSci	F	Harika Chodavarapu	What is the effect of different soil additions on the amount and quality of water leached when a pesticide is applied?
14-41	C79	092-C50-51		EarEnvSci	M	Ishaan Mandala	Generating Fresh Water from the Atmosphere: Exploring the Effects of Temperature on Water Vaporization
14-39	H93	092-C60-11		EarEnvSci	M	Saketh Srikantha	Wave Danger Detection - Using buoy data and wave properties
14-38	F26	092-D10-D1		PhysAstr	F	Raneem Abu-Nimeh	Supernova in a Box! Replicating Space Conditions
14-37	D41	092-D20-91		PhysAstr	F	Gauri Todur	Finding Galaxies Beyond: Vision Transformer Based Gravitational Lens Search Model Using Synthetic Data
14-36	F48	092-D30-51		PhysAstr	F	Mahika Khosla	Investigating Location and Harmful Effects of Space Junk Using Image Processing
14-35	D31	092-E10-51		ElecEng	F	Serena Gandhi	NOSI & ROSI - Novel Odor Sensing & Security Reconnaissance Controller - Responder Robots for Airport Operations
14-30	C94	092-E20-H2	T	ElecEng	M	Ponkarthikeyan Saravanan & Alex Yang & Sebastian Hagebris	The Design and Construction of a mirror attachment on motorcycles to detect blind spots for motorcyclists
14-29	D49	092-E30-E1		ElecEng	F	Diana Martynova	Intelligent Slime Robot
14-27	D37	092-E40-92	T	ElecEng	M	Shaurya Sharma & Hanav Modasiya	An Arm-Sleeve Device With Pre Stroke And Cardiac Complication Detection Paired with a Real-Time Data Delivering Network
14-26	D33	092-E50-61		ElecEng	M	Yuvraj Gill	A Privacy-Protecting Human Fall Detection and Warning System
14-25	I20	092-E60-21		ElecEng	M	Dhruv Sharma	Audio AutoTuneDetector: Novel mechanism to detect if audio is fake AI generated or auto-tuned to make it sound better
14-22	C30	092-F20-92	T	MechEng	F/M	Yuyao Wen & Matthew Xia & I-Chen Chou	The Design and Construction of a Compact Paper Recycling Machine to Recycle Used Paper
14-19	C26	092-F30-52	T	MechEng	F/M	Bolang Zhu & Kevin Zhu & Audrey Zhu	The Design and Construction of a Vertical Surface Cleaner

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Loc.	Code	Proj Num	Team	Field	Gender	Students	Title
14-14	D52	092-F40-12	T	MechEng	M	Ritvik Patra & Alex Mathew & Vihaan Kale	Using Machine Learning to Rescue Marine Animals from Human Pollution
14-11	G85	092-F50-E2	T	MechEng	M	Chaaruaas Kandregula & Harold Wang & Youngjun An	The Design and Construction of a Wearable to Prevent Students from Falling Asleep in Class
14-08	E85	092-F60-A2	T	MechEng	M	Sravik Naga & Ash Kausch & Aidan Wu	Smart Water Transportation Device to aid Drought-Affected Areas
14-06	J37	092-F70-71		MechEng	M	Jacob Chiu	Water Boiling Device with Heat Exchanger-Based Preheating to Produce Potable Water with Increased Energy Efficiency
14-03	L24	092-F90-F2	T	MechEng	F	Ishika Chandra & Jessie Zhu & Samarna Suresh	The Design and Construction of a Dog Collar That Releases Treats When the Dog Escapes the Leash to Prevent Runaway Dogs
14-02	C92	092-H10-F1		SoftEng	F	Linda Zeng	A Generative-Adversarial Approach to Translating Low-Resource Languages with Machine Learning
14-01	I23	092-H11-D1		SoftEng	M	Yash Sharma	A Novel Drought Forecasting System Using Deep Learning Techniques
13-01	F22	092-H20-B1		SoftEng	M	Jaiveer Gill	Creating a real time navigational aid for the visually impaired using context aware scene description and CNNs
13-02	J95	092-H21-91		SoftEng	M	Rrishi Anand	Unsupervised Detection of Abnormal Crop Changes From Aerial Images
13-03	F70	092-H30-71		SoftEng	M	Krish Arora	FindMySpace: A Cost Effective Carbon Reduction Solution for Parking Using Deep Learning and Edge Devices.
13-04	K65	092-H31-51		SoftEng	M	Vivan Doshi	Un-Distracted - App That Prevents Distracted and Drowsy Driving through Facial and Spatial Recognition using CNNs
13-05	F45	092-H40-31		SoftEng	M	Anav Apparaju	To Pick, Or Not To Pick?
13-07	B33	092-H41-11		SoftEng	F	Riddhi Sharma	Detecting Microplastics in Daily Foods and Groceries With AI
13-08	G98	092-H50-G1		SoftEng	F	Ishana Manikandan	Deep-learning-based detection of Covid-19 pneumonia from chest X-ray images
13-11	H21	092-H60-B2	T	SoftEng	F	Pragya Sharma & Chloe Yeoh & Ira Mathure	Creating a model which translates ASL using computer vision
13-12	J31	092-H70-81		SoftEng	F	Ariel Zhang	Applying Machine Learning to Micro-expression Recognition: Identifying Victims of Human Trafficking
13-13	I43	092-H80-41		SoftEng	M	Nolan Woo	Absolute Pitch: Recognizing Live Music to Automatically Scroll Through Sheet Music
13-14	J35	092-H90-H1		SoftEng	M	Arahan Balasubramanian	A Novel Multi-Layered Realtime Approach to Ensure Distracted Young Driver's Safety using Deep Learning and Geolocation.
15-02	A81	093-210-H1		PlantSci	F	Maitri Singhal	Smart Sprinkler to Save Water
13-17	C42	093-510-A1		BioInfo	F	Dnyanada Vijapure	Predicting Melanoma Patient's Response to Nivolumab Immunotherapy Using Machine Learning
13-18	F64	093-520-61		BioInfo	F	Danika Gupta	DrugGraph: Bypassing Harmful Drug Side Effects via a Hybrid Deep Learning and Knowledge Graph Approach
13-19	F43	093-710-B1		BiomedEng	M	Ilesh Sundar	Autofeelment: Automatic Monofilament Test for Diabetic Neuropathy
13-21	B83	101-210-11		PlantSci	F	Cadence Ho	Investigating the effects of bee salivary enzymes on incised Brassica rapa maturation
13-22	C11	101-220-E1		PlantSci	F	Grace Crites	Comparison between Pontederia cordata and Pontederia crassipes in phytoremediation of heavy metals
13-23	F14	101-240-61		PlantSci	F	Mina Nakamura	The Effects of Mealworm Frass, Post Polystyrene Consumption in Brassica rapa
13-24	I90	101-250-21		PlantSci	F	Lauren Lee	Probiotics Protect Tomato Growth from Sodium Dodecyl Sulfate-Induced Stress
13-25	C10	101-320-61		AnimalSci	M	Andrew Liang	BeeWell: Developing an AI-based Bee Health Assessment System Utilizing Computer Vision and Acoustic Signal Processing
13-26	G46	101-330-21		AnimalSci	M	Vince Wu	Development of a Predictive Model of Honey Bee Foraging Activity

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Loc.	Code	Proj Num	Team	Field	Gender	Students	Title
							Under Different Climate Conditions
13-28	I44	101-340-E2	T	AnimalSci	M	Jackie Wei & Samyak Rao	Investigating the Decomposition of Polyethylene by Galleria Mellonella (Wax Worms)
13-29	B60	101-410-21		BiocheMic	M	Brandon Ha	Expediting the Regenerative Process in Planaria Using Low Frequency Sound Frequency Waves
13-30	B24	101-420-F1		BiocheMic	F	Sara Niemeyer	Testing the effects of caffeine and scopolamine on body fat in C. elegans
13-34	E54	101-430-A2	T	BiocheMic	M	Neil Krishnan & Shiven Balaji	Exploring the Effects of Freshwater Acidification on Hydra/Daphnia Population Sizes
13-36	B58	101-440-71		BiocheMic	F	Melanie Nguyen	What are the Effects of Natural Supplements on MPP+ induced Parkinson's Disease model of C .elegans?
13-37	E60	101-450-31		BiocheMic	F	Lindsey Tuckey	The Effect of Antibiotic Concentration on Phage-Antibiotic Synergy
13-40	C29	101-470-B2	T	BiocheMic	F/M	Kangjia Huang & Brian Xue & Helen Wu	Analyzing trends of various concentrations of alcohol-solvent solutions on efficacies of their antimicrobial properties
13-41	F69	101-510-B1		BioInfo	M	Sriman Ratnapu	The design and construction of a program to monitor an animal's wellbeing in captive environments.
13-43	G66	101-511-82	T	BioInfo	F/M	Atharv Mahajan & Arushi Mani	Detect adolescents' mental health using AI/ML, cognitive research & neural network simulations for early intervention.
13-44	E32	101-520-71		BioInfo	F	Kashish Priyam	Using SVMs to Recommend Cancer Treatment Responses
12-43	G21	101-521-42	T	BioInfo	F/M	Ananya Manoj & Anijeet Kanjilal	Highly Accurate Differentiation of Benign and Malignant Cancer Cell Morphologies Using Convolutional Neural Networks
12-42	E57	101-530-31		BioInfo	M	Ayaan Khan	A Novel Way to Detect Insomnia by Using EEG and fMRI Signals to Classify Brain Activity During Various Stages of Sleep
12-40	D36	101-540-F2	T	BioInfo	M	Soham Kulkarni & Om Kulkarni	Development of Novel Predictive ML Model for Detecting and Addressing Spinal Cord Complications
12-39	I55	101-541-E1		BioInfo	F	Stella Su	Cardiac Gene Regulatory Programs in Mammalian Embryonic Development and Disease Risk Association
12-38	G24	101-550-C1		BioInfo	M	Aahan Shah	Discrete-time MCMC simulation of compartmental models & Machine Learning prediction of COVID-19 variants infection.
12-37	H99	101-560-81		BioInfo	M	Aarav Sharma	Leveraging Computer Vision To Establish a Correlation Between Eye-Gaze Estimation and Saccades
12-36	I17	101-570-41		BioInfo	M	Luke Jun	Utilizing AI Prediction Models to Predict and Knock Out Pathogenic Variants of Survivor Motor Neuron (SMN) Genes
12-34	K51	101-580-H1		BioInfo	M	Ryan Kim	BeeSafe: Detecting bee diseases with multi-scale object detection and Generative Adversarial Networks (GANs)
12-33	B98	101-590-D1		BioInfo	F	Meghana Somu	Using public maternal cell-free DNA and machine learning techniques to predict pregnancies with adverse outcomes
12-30	B57	101-610-31		MedHeaSci	M	Junhao Wang	Testing the Antibacterial Effects of Essential Oil Coated Hydroxyapatite Nanoparticles
12-29	B46	101-620-G1		MedHeaSci	F	Sarah Schaevizt	Examining Tryptophan and Saturated Lipids on Social Proto-Phenotype C. elegans to Model Schizophrenic Effects
12-28	B87	101-630-C1		MedHeaSci	F	Medha Sarkar	Testing if pectin can disrupt the TGF-beta pathway to avoid misfolding in a C. elegans model of Alzheimer's disease
12-27	J65	101-631-A1		MedHeaSci	M	Gaurwik Paul	Meta Analysis of Income Disparity and Pollution on health outcomes in California State
12-26	B29	101-640-81		MedHeaSci	F	Rosa Sahandi	Testing vitamin D3 to increase insulin signaling in C. elegans fluorescence model

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12-25	I88	101-641-61		MedHeaSci	M	Jinwo Park	Different Types of Stem Cells in Diabetes
12-23	B89	101-650-41		MedHeaSci	F	Sophia Nguyen	The effects of artificial flavorings on intestinal barrier permeability in <i>Drosophila melanogaster</i>
12-22	B99	101-660-H1		MedHeaSci	F	Ria Sharma	Evaluating the neuroprotective effects of epicatechin (EC) on ALS modeled in <i>C. elegans</i>
12-21	C54	101-670-D1		MedHeaSci	F	Sydney Mortensen	Using Apiin to Disrupt TGF-beta Signaling Pathway for the Prevention of Alzheimer's Disease in a <i>C. elegans</i> Model
12-20	D42	101-680-91		MedHeaSci	F	Florence Le	The Effect of Simulated Depression on Body Size of Female <i>Drosophila</i> to Model Changes in Ecdysone Levels
12-19	E52	101-690-51		MedHeaSci	M	Alec Zhang	Gender-based injuries in soccer players: Developing machine learning programs to predict the most significant factors.
12-14	D97	101-710-B2	T	BiomedEng	F	Ashika Sugali & Ruchi Alavilli & Saamya Yadav	Administering Anesthesia Accurately
12-11	D68	101-730-32	T	BiomedEng	M	Ananth Kini & Micah Keegan & Karan Kolappa	Using cost-efficient materials and software to create a medical pill intake tracking device
12-10	G65	101-740-H1		BiomedEng	M	Anish Bhethanabotla	RetiVision: An Advanced and Economical Method for Precise Fundus Disease Detection via Retinal Imaging and Deep Learning
12-09	E64	101-750-D1		BiomedEng	M	Hiranya Parekh	A Novel Design for a Robotic Electromechanically Controlled Injection Mechanism
12-08	H41	101-760-91		BiomedEng	F	Anika Pallapothu	Deep Learning Based Volumetric Segmentation of Heart Ventricles for Assessment of Cardiac Disease using MRI
12-06	J88	101-770-51		BiomedEng	F	Ishita Samadhiya	Using Deep Learning to Predict Mitochondrial, Multi-factorial, and Single-gene Genetic Disorders
12-05	J25	101-780-11		BiomedEng	M	Samarth Prajapati	Optimizing image thresholding techniques to create novel histopathological stain normalization for cancer classification
12-04	F71	102-A10-61		Chemistry	M	Tarun Ramakrishnan	Formulating a Pool Sanitizer That Prevents Burning Sensation by Protecting the Tear Film of the Eye
12-03	F10	102-B10-F1		CheEnvEng	F	Sivani Ryali	Automatic Irrigation System Using Soil Moisture Analysis Methods
12-01	D43	102-B20-A2	T	CheEnvEng	F	Manasa Satish & Agatha Vu	Greywater Power: Using Greywater to power Up a Hydropower System
11-03	E86	102-B30-62	T	CheEnvEng	M	Aryan Ponnuru & Samuel Geevarghese & Rehaan Karnik	Identifying pH Levels of Bodies of Water Through the Utilization of an IMU
11-05	H20	102-B40-22	T	CheEnvEng	F	Eunseo Ryu & Minseo Ryu	Effective and Low-Cost Method to Generate Fresh Water from the Atmosphere
11-06	J68	102-B50-G1		CheEnvEng	M	Aleksey Valouev	An AI-Powered Network of Sensors with Wireless Data Transmission for Real-Time Wildfire Detection
11-07	C19	102-C10-71		EarEnvSci	M	Rohan Jones	The Effect of Microbial Induced Carbonate Precipitation(MICP) On Mechanically Stabilized Earth(MSE) Wall Stability
11-08	H12	102-C20-31		EarEnvSci	M	Calvin Zhou	BISET: A Blockchain and IoT Sensor-based Emissions Trading System with Integrated Monitoring
11-09	D99	102-D10-G1		PhysAstr	M	franklin yang	A study of the composition of dust grains in the Crab nebula by analyzing data from the James Webb Space Telescope (JWST)
11-11	D21	102-D20-C1		PhysAstr	M	Shreyas Ramaswamy	How massive would the hypothetical Planet 9 have to be in order to significantly affect the orbits of the known planets?
11-12	B38	102-E10-81		ElecEng	F	Saanvi Bapat	ReMed: An Affordable and Convenient Medicine Reminder System and App
11-17	D50	102-E20-32	T	ElecEng	F	Tanisha Jain & Gauri Elavanmadam & Tanvi Kenkre	Voice Controlled Prosthetic Arm
11-18	F49	102-E40-D1		ElecEng	M	Connor Chin	A signal processing modeling and feedback system for stringed instrument musicians

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11-19	F90	102-E50-91		ElecEng	M	Divij Motwani	Ankh - Navigation and Obstacle Avoidance for the Visually Impaired.
11-22	D55	102-E70-H2	T	ElecEng	M	Bhargav Eranki & Shine Chang & Matthew Chen	Robust LoRa-based Mesh Network Solution for Wildfire Detection and Growth Forecast through Custom Predictive Algorithms
11-23	E40	102-E80-E1		ElecEng	F	Shefali Gokulnatha	IoT-driven, mobile-enabled smart air purifier for home air quality control
11-24	B96	102-F10-H1		MechEng	M	Lakshya Agrawal	Fabricating a Novel Air Engine Capable of Maintaining a Certain Mechanical Efficiency and Studying Viability for Car Use
11-27	C25	102-F20-C2	T	MechEng	M	Haoyuan Deng & Richard Li & Sammy Elzein	The design and construction of a semi-automatic shuttlecock collector
11-30	E59	102-F30-82	T	MechEng	F	Zuri Spencer & Clarissa Co & Keira Lin	Testing the Capabilities of a Vine Robot Within Search and Rescue
11-33	I85	102-F40-51		MechEng	M	Philip Oberhart	Wind to Electrical Energy Conversion for EV or Hybrid Cars
11-35	K73	102-F50-H2	T	MechEng	F/M	Arya Kamat & Zaki Shaikh	Simulated Environment for Optimized Compost Output
11-36	I83	102-F60-E1		MechEng	M	Ayush Sodani	Measuring Home Water Usage using a Differential Pressure Sensor
11-38	D80	102-G10-91		Math	M	Rishab Perati	Using Deep Learning Models to Accurately and Efficiently Recognize Lymph Node Metastases During Histopathological Staging
11-39	B23	102-H10-11		SoftEng	F	Jennifer Choi	Posture Correction Assistant: Wearable System Using 3 Wireless IMU Sensors to Detect Spinal Posture
11-40	D76	102-H11-G1		SoftEng	F	Niranjana Sankar	Determining Natural Products for Skin Cancer Drugs using Molecular Descriptors and Machine Learning
11-41	E42	102-H12-E1		SoftEng	F	Natasha Thombre	The Design and Construction of a Machine Learning Model that Uses Stellar Spectra to Predict Stellar Features
11-42	B42	102-H20-E1		SoftEng	M	David Wang	Testing Data Augmentation through Homogeneity-Based Audio Segmentation in Music Genre Classification
11-43	A89	102-H21-C1		SoftEng	F	Siyona Dhingra	Diagnostic Tool for Cardiovascular Disease Prediction using Machine Learning Algorithms
11-44	I45	102-H22-A1		SoftEng	F	Aishani Singh	LiveConv: AI Enabled Live Conversation Across Language Barriers on Augmented Reality Glasses
10-44	B91	102-H30-A1		SoftEng	F	Hima Thota	A Deep Learning Approach to Enhancing Stance Detection to Differentiate between Policy and Identity Based Polarization
10-42	J64	102-H32-61		SoftEng	M	Ayush Ghosh	Predicting Influences of Social Determinants of Health on Cardiovascular Disease Susceptibility Using Machine Learning
10-40	E80	102-H40-52	T	SoftEng	M	Samarjit Deshmukh & Aarav Garai	A Low Cost Waterborne Illness Detection Device Using Machine Learning
10-39	C93	102-H41-41		SoftEng	F	Audrey Cheng	Automated Segmentation of 3D Head CT Scans for Diagnosis of Intracranial Hemorrhages into Subtypes Using Machine Learning
10-37	D65	102-H42-12	T	SoftEng	F/M	Ritwin Narra & Emily Chen	Verifying Truthfulness of News with Blockchain
10-36	D60	102-H50-21		SoftEng	M	Aryan Singhal	Inferring Hate Speech Trends for Contemporary Tweets Using a Novel Machine Learning Approach from Supervised Algorithms
10-34	H55	102-H51-G2	T	SoftEng	F/M	Snehl Kakani & Sanya Badhe	FloodSafe - an advanced intelligent system for evaluating specific flood resistances
10-30	K14	102-H52-E2	T	SoftEng	M	Ethan Thomas & Kevin Chang	Implementing the Use of AI and Image Recognition to Optimize Food Storage in Refrigerators Through a Digital Interface
10-29	G10	102-H60-F1		SoftEng	M	Yash Ranjith	2D and 3D Physics Informed Neural Network for Pollutant Spread with Simple and Complex Flow Regimes
10-28	J18	102-H61-D1		SoftEng	F	Mahita Arun	Diagnosing Melanoma in Diverse Skin Types using Convolutional

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Loc.	Code	Proj Num	Team	Field	Gender	Students	Title
							Neural Networks (CNN)
10-27	G68	102-H62-B1		SoftEng	M	Ankit Mohan	AI-enabled Pathogen Detection for Underdeveloped Communities
10-25	G83	102-H70-A2	T	SoftEng	F	Ritika Appanagari & Daria Popescu	Pediatric Stroke Facial Recognition
10-24	I11	102-H71-91		SoftEng	F	Samanya Girish	A Novel Approach to Aid Video Capsule Endoscopy Diagnosis Using a Convolutional Neural Network
10-23	G30	102-H80-71		SoftEng	F	Sophie Li	Analyzing Soundscapes to Classify Rainforest Health/Level of Disturbance
10-21	I41	102-H81-51		SoftEng	M	Raghav Garimella	Predicting the Probability and Severity of Forest Fires Using a Multi-Layer Perceptron Classifier on Meteorological Data
10-19	B70	102-H90-22	T	SoftEng	M	Armaan Gomes & Samuel Yuan	Leveraging Genetic Algorithms and Mathematical Wildfire Propagation Models to Determine Optimal Firebreak Placement
10-18	H42	102-H91-11		SoftEng	M	Jiyang Chu	Remote Network Management via Social Media Bot
10-17	G69	103-510-D1		BioInfo	M	Lexing Huang	Novel Deep Learning Models Boost CO2 Emissions Prediction of Mainland China
10-14	A86	103-520-91		BioInfo	F	Melody Yin	Investigating Sequence Determinants and Their Role in Drosophila Gene Expression using Deep Learning
10-13	K72	103-530-51		BioInfo	M	Miles Hua	Task-Oriented Embedding for Better Classification of Cancer Subtypes
10-12	K70	103-540-11		BioInfo	F	Angela Rao	Designing a Neural Network to Better Predict LogP
10-11	E38	103-620-11		MedHeaSci	F	Young Min	Development of a Novel Cell-penetrating Peptide (CPP) For Anti-cancer Therapy
10-10	D62	103-630-E1		MedHeaSci	F	Trisha Sannappanavar	Comparing the properties of natural antibacterials and synthetic antibiotics and which is the most effective in inhibiti
10-08	E37	103-710-E1		BiomedEng	M	Vrishank Chandrasekhar	PulmonaryMD: A Novel Self-Supervised Contrastive Learning Tool for Pulmonary Embolism Diagnosis
10-07	G52	103-720-A1		BiomedEng	F	Reva Sharma	Secret Behind The Perfect Smile: Clarity On Aligner Materials
10-06	G13	103-730-61		BiomedEng	M	Adrit Rao	Automated Segmentation and Measurement of Aortic Aneurysms in Computed Tomography Angiography Using Deep Learning
10-05	J72	104-C10-91		EarEnvSci	M	Aaryan Doshi	SoilNet: Improving Crop Yields by Predicting Soil Nutrient Deficiencies Using Hyperspectral Satellite Images
10-04	A76	104-D10-11		PhysAstr	M	Krishiv Bhatia	Visualizing Binary Black Hole Mergers using Kuibit
10-03	G36	104-E10-A1		ElecEng	F	Chiling Han	SSGeoLocator- Finding Geographic Coordinates from a non-GPS Approach/Geopositioning Using Street Name Plates
10-02	B73	104-F10-21		MechEng	M	Leo Dai	Underwater Soft Robot for Navigating Underwater Surfaces
10-01	J17	104-G10-B1		Math	M	Agastya Goel	RSK-completeness and Cycle Decompositions
09-01	G59	104-H10-31		SoftEng	F	Katarina Avlijas	AI-Based Image Classification Used to Accurately Distinguish Recyclable Material Versus Non-Recyclable Material
09-03	H92	104-H20-G1		SoftEng	M	Rayyan Mohamed	Combating Climate Fake News Using NLP
09-04	C82	111-210-31		PlantSci	F	Ananya Gupta	Impacts of antibiotic reagents on morphology and differentiation in Phaseolus vulgaris callus tissue
09-06	B79	111-220-F2	T	PlantSci	F	Kathleen Ha & Kylie Gu	The Effects of Colored Substrates on Vigna radiata (Mung Bean) Health Identifiers
09-07	F86	111-230-C1		PlantSci	F	Vaishnavi Kunapuli	Examining the Phytotoxic Effects of the Fungal Secondary Metabolite Helvolic Acid on the Growth of Oryza Sativa
09-08	F88	111-240-81		PlantSci	F	Vaishali Jha	The Effect Of Hormones and Hormone Concentrations On The Growth Of Radish Seeds
09-09	G51	111-310-C1		AnimalSci	F	Sasha Wang	Can Winter Ants (Prenolepis Imparis) Assess Food Quality and

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Loc.	Code	Proj Num	Team	Field	Gender	Students	Title
							Concentration of Enemy Ants Near a Food Source?
09-10	A21	111-410-41		BiocheMic	F	Sudithi Manthathi	Understanding the effects of curcumin on zebrafish eggs as a model of cancer
09-11	F19	111-411-21		BiocheMic	F	Tebin Kim	The Effects of Sugar and Non-Metabolizable Sweetener Concentrations on Probiotic Bacterial Survival in Gastric Acid pH
09-12	A82	111-420-H1		BiocheMic	F	Elizabeth Snyder	Observing The Effect of Polyethylene Microplastic Exposure on Glyphosate Toxicity in Staurostrum, sp. Algae
09-14	B43	111-430-D1		BiocheMic	F	Claire Liu	Testing the effect of bromoform on Halobacterium growth, modeling methane production
09-17	D82	111-450-51		BiocheMic	M	Arnav Swaroop	De Novo Protein Design Targeting Microglial IL-3R to Inhibit Alzheimer's Progression
09-19	E11	111-460-H2	T	BiocheMic	F	Kimberly Tong & Jiya Dharne	Comparing the effectiveness and toxicity of Amphotericin B. and nystatin on fungi
09-20	F17	111-480-A1		BiocheMic	F	Sophia Tran	Is a Combination of Home Remedies More Effective as an Antibiotic than a Single Home Remedy?
09-22	F58	111-490-52	T	BiocheMic	F	Malaya Purvam & Safia Peer	Tardigrade Effects on CFTR mouse knockout cells
09-23	D58	111-510-D1		BioInfo	F	Rhea Karthik	The Correlation between Mutations in the Interleukin Genes and the Risk for Sleep Disorders
09-25	F23	111-520-82	T	BioInfo	M	Krishna Nathan & Vatsel Srivastava	Detecting High-Risk Cardiac Abnormalities using the Long Short Term Memory Algorithm
09-26	K94	111-521-71		BioInfo	F	Shayda Oliaei	Determining conditions favoring selection of cells with the p53 gene mutation through statistical analysis
09-27	G72	111-530-51		BioInfo	M	Kshitij Teotia	SMILES Encoding and Deep Learning to Predict Quantitative Efficacy of Structurally Distinct Molecules for Antibiotics
09-29	J24	111-531-22	T	BioInfo	F/M	Jonathan Yu & Atman Shah	Perfecting Antiandrogens: A Non-Hepatotoxic Bicalutamide Analog
09-30	I40	111-540-11		BioInfo	F	Ananya Dasaka	A Model to Optimize Subthalamic Deep Brain Stimulation for Parkinson's Disease
09-33	H73	111-550-E1		BioInfo	F	Sanskriti Singh	The Segmentation of Lung Anomalies on Chest Radiograph X-rays using Machine Learning
09-35	J74	111-560-A1		BioInfo	M	Adhip Raghunathan	Leveraging Textural Information from Structured Light Scanning for Automated Classification of Skin Conditions
09-36	G38	111-570-61		BioInfo	M	William Zhang	Single Cell Multimodal Genomic Data Covariance Prediction with Deep Learning
09-38	J69	111-580-12	T	BioInfo	F	Deedee Bui & Shayla Lee	Analysis of Factors in Skin Transcriptomics using Spaceflight Data
09-39	G61	111-590-F1		BioInfo	F	Nehaa Anumolu	Investigating the affect of famine on methylation levels within affected populations
09-40	A90	111-610-51		MedHeaSci	M	Taj Chunawala	Evaluating the Effectiveness of Lansoprazole on Human Gut Microbiota in a Gastroesophageal Reflux Model In Vitro
09-41	E79	111-611-31		MedHeaSci	F	Paulina Plater	Removal of Microplastics in the Bloodstream Using a Ferrofluid Magneto-Chemical Filter
09-42	A97	111-620-11		MedHeaSci	F	Pria Chandarana	Inducing Rb knockdown to generate a stable Drosophila Melanogaster retinoblastoma model
09-43	B47	111-630-E1		MedHeaSci	F	Lynn Dai	Reduced Psoriasis Skin Irritation Symptoms through the Effects of Chinese Herbal Medicines on Planarial Stem Cells
09-44	D16	111-631-C1		MedHeaSci	F	Anne Xu	Using Machine Learning Models to Predict Onset of Alzheimer's Disease Based on MRI Images
08-43	F20	111-640-A1		MedHeaSci	F	Paula Le	Combining Drugs that Target K-ras in the EGFR pathway

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Loc.	Code	Proj Num	Team	Field	Gender	Students	Title
08-42	G84	111-641-81		MedHeaSci	F	Maanasa Ramprasad	A Tool for Optimally Formulating Ready-To-Use Foods Based on Ingredient Price Trends
08-41	E92	111-660-21		MedHeaSci	M	Sadik Aref	A Multimodal Investigation of Sepsis Prediction: Clinical, Procalcitonin-based and Genetic Approaches
08-40	G76	111-661-H1		MedHeaSci	M	Arjun Gurjar	The Effect of Clemastine Fumarate on C. elegans in a Hyperglycemic Model of PAD related Oxidative Stress
08-39	C69	111-670-F1		MedHeaSci	F	Ella Yee	Developing a Novel Hybrid Approach to Extract Circadian Gene Signatures and Uncover Mechanisms of Tumorigenesis
08-38	F79	111-671-D1		MedHeaSci	F	Ella Lan	HDformer: A Higher Dimensional Transformer for Diabetes Detection Utilizing Long Range Vascular Signals
08-37	D72	111-680-B1		MedHeaSci	F	Iniyaa Suresh	The effect of Vitamin D and calcium supplementation on insulin resistance modeled in Drosophila Melanogaster
08-36	F52	111-690-71		MedHeaSci	M	Jonathan Wang	Ability of podophyllotoxin to shield healthy cells from the cytotoxic effects of phase-specific anti-metabolic chemotherapy agents.
08-34	K89	111-691-51		MedHeaSci	F	Srishti Ganguli	Machine Learning Methods to Predict Postpartem Neonatal Death
08-30	F99	111-720-92	T	BiomedEng	F	Sucheer Maddury & Krish Desai	DeepAD: A Deep Learning Application for Predicting Amyloid SUVR through PET for Alzheimer's Prognosis
08-29	G94	111-740-21		BiomedEng	F	Hoshita Undella	Using Machine Learning to Detect the Binding Efficiency of Ligands for Effective p53-MDM2 Inhibition
08-28	A38	112-A10-81		Chemistry	F	Serina Cao	Synthesis of Small Molecule Triazine Derivatives as Potential PD-1/PD-L1 Binding Inhibitors and Antiproliferative Agents
08-27	A77	112-A20-41		Chemistry	M	Woong Choi	Storing H ₂ from nitrogen-based heterocyclic Metal Organic Frameworks linked with Nickel
08-26	A36	112-A30-H1		Chemistry	F	Angely Vargas	Synthesizing a mGluR5 negative allosteric modulator to minimize the frequency of bulimic tendencies
08-24	A13	112-A40-C2	T	Chemistry	F	Bridget Liu & Audrey Tsai	Synthesizing analogs of Stearoyl-Coenzyme A Desaturase 1 inhibitors to ameliorate alpha-Syn cytotoxicity in Parkinson's.
08-23	D39	112-A50-91		Chemistry	M	Carter Capetz	Sustainable Polymers: Synthesis and Characterization of a Renewable Polymer from Diverse Lactones and L-Lactide
08-22	A18	112-A60-51		Chemistry	F	Chihiro Niki	Dechlorination of Trichloroethylene (TCE) by Nanosized Zero-Valent Nickel
08-21	E63	112-B10-H1		CheEnvEng	M	Henry Yao	From Food Waste to Food Guard: Creating A Novel Chitosan Bioplastic with NP Coating & Its Effect on Food Preservation
08-19	F81	112-B20-D1		CheEnvEng	F	Himani Manjunath	"Ap-peeling" Bioplastic: Investigating the Effect of Adding Cocos nucifera Shells to Potato Peel Bioplastics
08-18	F34	112-B40-51		CheEnvEng	F	Alakananda Roy	Designing a composter to decompose traditional plastics before they leave our homes.
08-14	I48	112-B50-H2	T	CheEnvEng	F	Sihyeon Yoon & Gahyeon Yoon	A Research on Planning Renewable Energies toward 100% Green Energy Considering California's Climate Change
08-13	H33	112-B80-61		CheEnvEng	F	Sonia Swamy	Curb-AD: Effect of Fenchol-Based Treatments on Reduction of ETS-induced Neurotoxicity in Alzheimer's Disease Pathology
08-12	K78	112-B90-21		CheEnvEng	M	Youngwoo Tahk	A New Environmentally Conscious Tennis Ball
08-11	D66	112-C10-91		EarEnvSci	F	Amy Zheng	A novel machine-learning based model for global flood-forecasting and risk assessment

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Loc.	Code	Proj Num	Team	Field	Gender	Students	Title
08-10	I80	112-C20-51		EarEnvSci	M	Aniket Mittal	Utilizing Deep Learning and Dataset Augmentation for Wildfire Prediction and Optimized Escape Routes
08-08	K71	112-C30-H2	T	EarEnvSci	F	Sokunthea Mau & Lauren Lee	Upcycling Single-Use Masks to Develop Sturdy Plant Pots
08-07	I79	112-C40-E1		EarEnvSci	M	Ryan Zhang	PEDS-AI: A Novel UAV Based AI Powered Visual-Acoustic Field Deployed Pest Early Detection and Identification System
08-06	K67	112-C60-61		EarEnvSci	M	Oscar Anderson	Impact of Mycorrhizae on Terrestrial Carbon Sinks Under Elevated CO2 Levels: How Fungi can Slow Climate Change
08-04	J11	112-C80-F1		EarEnvSci	F	Sanjoli Gupta	Changing Climate Will Cause Internal Climate Migration in Brazil, Pakistan and Somalia
08-02	J89	112-C90-A2	T	EarEnvSci	F	Alice Zou & Sarah Cadenas	The Subsidence of Earth Geography, and how machine learning can solve that
08-01	G73	112-D10-11		PhysAstr	M	Vedant Janapaty	A Novel Physics Based Predictive Model For Wetland Eutrophication
07-01	J34	112-D30-A1		PhysAstr	M	Arnav Dhariya	Effect of Changing Reed Material from Brass to Copper in a Harmonium.
07-02	I49	112-D40-61		PhysAstr	M	Rohit Khorana	Low-Earth Satellite Orbit Determination Using Deep Convolutional Networks with Satellite Imagery
07-03	G95	112-D50-21		PhysAstr	M	Abhay Dharnidharka	A Novel Way To Purify Water
07-04	B27	112-E10-A1		ElecEng	M	Taren Patel	Quantum Circuit Complexity-Based-Optimization
07-05	F93	112-E20-61		ElecEng	F	Ruhi Yusuf	Remote Sensing using Haptic Feedback
07-06	A74	112-E40-F1		ElecEng	F	Diya Bengani	Wearable Plantar Pressure Sensor for GPS-Based Alert System
07-08	G91	112-E50-B1		ElecEng	F	Nandanaa Srikanth	Foot Operated Remote Control To Aid Those With Limited Dexterity
07-09	I16	112-E60-71		ElecEng	M	Ethan Zuo	Autonomous, Self-balancing Bicycle for Urban Delivery and Community Connection
07-10	B44	112-F10-21		MechEng	M	Collin Wentzien	Using CNNs for object detection and avoidance for use on an autonomous bicycle.
07-11	F94	112-F20-F1		MechEng	F	Sangyani Sinha	OmniGraphia v2: A Novel Intelligent Robot Replacement for all Optical Laboratory Instruments
07-13	H96	112-F30-A2	T	MechEng	M	Ryan Co & Jeremy Flint	Drone Braiding: A Lightweight Approach to Space Manufacturing
07-14	J39	112-F40-71		MechEng	M	Sanjit Borle	Automated Washing/Drying Machine Load Changing Technology
07-17	I14	112-F50-31		MechEng	M	Aaditya Pillai	Origami in Engineering: Improving the Earthquake Resistance of Structures using Origami Inspired Designs
07-19	K85	112-F60-F2	T	MechEng	M	Minkyu Koo & Hankyu Koo	Smart Cool Roof for Enhanced Heating and Cooling of a Building
07-20	H35	112-G10-B1		Math	F	Wyndia Ohm	Systematic Finite & Infinitesimal Explorations in N-Dimensional Space that lead to new identities & a new field of study
07-21	A84	112-H10-31		SoftEng	M	Ryland Goldman	Using CUDA to Increase the Accuracy and Performance of Particle-Particle N-Body Simulations
07-22	D75	112-H11-11		SoftEng	M	Sanjay Chandrasekar	A Novel Machine Learning System for Suicide Risk Stratification via Analysis of Linguistic Features in Social Media
07-24	G56	112-H12-F2	T	SoftEng	F	Niti Reddy & Anisha Shukla	Utilizing Machine Learning and Neural Networks for M-pox Lesion Detection
07-26	I77	112-H13-E1		SoftEng	F	Clarisse Cheung	Explainable Statistical Machine Learning Models in Drought Monitoring
07-27	K16	112-H14-C1		SoftEng	F	Priyanka Ganguly	Law Enforcement using Machine Learning
07-28	B54	112-H20-G1		SoftEng	F	Olivia Li	Using sentiment analysis to generate a color palette from words for graphic design purposes
07-29	E96	112-H21-E1		SoftEng	M	Neel Handa	What is the Effect of Coral Bleaching on the Blood Based Values of Hawaiian Monk Seals(your measured end point

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Loc.	Code	Proj Num	Team	Field	Gender	Students	Title
07-30	D98	112-H22-C1		SoftEng	M	Aarush Narang	Earthquake Time Prediction using a Time Series Forecasting Long Short-Term Memory (LSTM) Machine Learning Model
07-33	I95	112-H23-A1		SoftEng	F	Sudiksha Das	A Comprehensive Solution to Formulate Multi-Year Graduation Plan for College Students
07-34	K87	112-H24-81		SoftEng	M	Haoyun Luo	A More Efficient Reinforcement Learning Neural Network
07-35	A80	112-H30-C1		SoftEng	F	Anika Mehrotra	Exploring the Explainability of AI Systems and Efficacy of Existing Explanation Systems
07-37	D34	112-H31-92	T	SoftEng	F	Mridula Srinivasan & Shridhula Srinivasan	Robot that Detects Plant Disease Using Convolutional Neural Network
07-39	D71	112-H32-72	T	SoftEng	M	Shiven Bhatt & Bhavan Balusu	Sleep score Diagnosis using a machine learning classification model.
07-41	I70	112-H33-61		SoftEng	M	Ryan Lin	Transfer Learning with CNN based models for Skin Cancer Classification
07-42	J29	112-H34-41		SoftEng	M	Rohan Gupta	Augmenting End-to-End Machine Learning Steering Angle Prediction with CAN bus data
07-43	A30	112-H40-81		SoftEng	M	Matthew Kim	Detecting the prevalence of microaggression generations in natural language generation (NLG) models
07-44	F28	112-H41-61		SoftEng	M	Ashir Rao	Identifying Subjective Words for Cross-Linguistic Media Bias Detection
06-44	F25	112-H42-41		SoftEng	F	Michelle Zhou	Large-scale PageRank on a Single Raspberry Pi
06-42	K63	112-H43-12	T	SoftEng	M	Akshay Anand & Vibhor Narang	Detecting Speech Disorders and Determining their Severity for Treatment Using CRNNs and Unsupervised Learning Methods
06-41	J73	112-H44-H1		SoftEng	M	Aaditya Rajvanshi	EconoVision: Utilizing Machine Learning to Produce Economic Projections
06-39	C62	112-H50-32	T	SoftEng	M	Alexander Mehta & Ritik Jalisatgi	Theia: Assistive Environmental Communication via Audio Patterns for the Visually Impaired
06-38	H22	112-H52-H1		SoftEng	M	Jiaming Situ	A More Accessible Generative Adversarial Network for Image Synthesis
06-37	I56	112-H53-F1		SoftEng	M	Arjun Raje	Quantum Machine Learning with Tensor Networks
06-35	K83	112-H54-C2	T	SoftEng	M	Rishabh Bhargava & Dhruv Bhargava	Analyzing Pathogens in Water Through Machine Learning Models
06-33	D54	112-H60-H1		SoftEng	M	Julian Ng-Thow-Hing	A machine learning algorithm to predict muscle activations during motions performed in real time
06-30	I84	112-H62-D1		SoftEng	M	Rohan Shah	Using Artificial Intelligence to Identify Triggering Videos that Can Be Detrimental to One's Mental Health
06-28	J61	112-H63-A2	T	SoftEng	F	Caitlin Nguyen & Rebecca Wang	Reducing Response Times in School Shootings Using a Comparative ML and GAN-Based Gunshot Detector and an Alerts Pipeline
06-26	H19	112-H64-82	T	SoftEng	F	Sumayyah Ismail & Anchal Bhardwaj	Developing a Novel Automatic Speech Recognition (ASR) Model to Improve Tone Pronunciation in Mandarin
06-25	E99	112-H70-D1		SoftEng	M	Varun Fuloria	Exploring Natural Language Processing Techniques to Measure Policymakers' Publicly Expressed Stances on Policy Issues
06-22	G11	112-H71-A2	T	SoftEng	M	Sumukh Venkatesh & Rishit Agrawal & Prajwal Vandana	Predicting the impact of climate change and its secondary effects on US housing prices
06-21	I68	112-H72-91		SoftEng	M	Aaditty Tiwari	Where does Quantum Machine Learning have an advantage over Classical Machine Learning on various machine learning models
06-20	K11	112-H73-71		SoftEng	F	Nidhi Lawange	Novel Approach to Correct Ballet Dance Technique Using Machine Learning Model
06-19	H47	112-H74-51		SoftEng	F	Sanchitha Dinesh	Utilizing deep reinforcement learning techniques to improve the accuracy of digital holography
06-18	C68	112-H80-91		SoftEng	M	Yashnil Saha	Deep Learning Pose Estimation model for Parkinsonism and

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Loc.	Code	Proj Num	Team	Field	Gender	Students	Title
							Levodopa-Induced Dyskinesia
06-17	C88	112-H81-71		SoftEng	F	Tanvi Chukka	A Novel Method Utilizing Quantum Deep Learning to Detect Blood Clot Origins During a Stroke Using Pathology Images
06-13	I72	112-H82-51		SoftEng	F	Zeyneb Kaya	MADLIBS: A Novel Multilingual Data Augmentation Approach for Low-Resource Neural Machine Translation
06-12	K92	112-H83-31		SoftEng	F	Radhika Goyal	A Maxflow-based Algorithm to Determine a Cost-Minimizing Schedule for Emergency Supply Management
06-11	F12	112-H90-51		SoftEng	F	Ritu Belani	Siri But Smarter: Using AI to Enhance Math Learning
06-10	H17	112-H91-31		SoftEng	F	Ananya Bharathapudi	Alleviating Psychological Distress in Afghanistan: A Mental Wellness App
06-09	I51	112-H92-11		SoftEng	F	Anagha Badriprasad	A Novel Tree-Based Clinical Application for Breast Cancer Survival Analysis Using Multimodal Deep Learning on Omics Data
06-08	D78	112-H93-G1		SoftEng	M	Shreyassriram Garimella	Implementing a deep learning approach with MRI scan data to interpret brain segments involved in Alzheimer's Disease
06-07	C18	113-210-51		PlantSci	F	Evelyn Hsu	Agrobacterium rhizogenes Versus Agrobacterium tumefaciens T-DNA Transformation in Brachypodium distachyon
06-06	F11	113-410-61		BiocheMic	F	Reshma Kosaraju	Quantification and Optimization of Circular RNA Stability for Improved RNA Therapeutics
06-04	E66	113-420-21		BiocheMic	F	Fiona Yan	Investigating the Function of Toxin-Antitoxin Systems in E. coli using a computational approach and CRISPR
06-03	D45	113-440-B1		BiocheMic	M	Ravi Prabhune	The Effect of Early Visual Experience on Vesicular GABA Transporter Distribution in Hamster Superior Colliculus
06-02	D69	113-510-F1		BioInfo	M	Andrew Zhou	Predicting patient outcome and immunotherapy response in bladder cancer using gene expression profiles and deep learning
06-01	H34	113-520-B1		BioInfo	M	Andre Rayner	Applying AI to Identify Targets for Treatment of Allergy Diseases
05-01	F47	113-530-71		BioInfo	M	Ramit Goyal	Developing a model to predict whether single nucleotide variants are likely benign or pathogenic
05-02	G31	113-540-31		BioInfo	M	Akhil Agarwal	Dynamics of Two Competing Viruses over Large-Scale Networks
05-03	I73	113-550-G1		BioInfo	M	Prarthan Ghosh	The Effect of Different Optimization Functions on Constructing a Computer Simulation of a Hodgkin-Huxley Neuron Model
05-04	J86	113-560-C1		BioInfo	M	Paras Goel	The Effect of Stain Normalization and Data Augmentation on Metastatic Tissue Classification
05-06	F38	113-610-71		MedHeaSci	F	Betul Tulu	The Biomechanics of Tooth Eruption
05-07	F27	113-620-31		MedHeaSci	F	Manasvi Pinnaka	Canonical Wnt signaling through Fzd4 directs alveolar capillary identity in the distal lung
05-08	E12	113-640-C1		MedHeaSci	M	Sriram Bhimaraju	Effects of dystrophin variants on cell morphology, calcium handling, and arrhythmia on DMD cardiomyocytes in vitro
05-09	H16	113-650-81		MedHeaSci	M	Hanwen Shi	FaceTell: A Novel Way To Diagnose Parkinson's Disease With Facial Expression and Deep Learning
05-10	K69	113-670-H1		MedHeaSci	F	Ojasvi Mudda	Computational Modeling for Articular Cartilage Development to Investigate Articular Cartilage Development
05-11	J67	113-710-G1		BiomedEng	M	Sathvik Chundru	Improving the 3D Modeling of Cancer Resection Specimens Labeled

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Loc.	Code	Proj Num	Team	Field	Gender	Students	Title
							with Tumor Specific Fluorescence using Machine Learning
05-12	F65	113-720-C1		BiomedEng	F	Isha Kotalwar	Using 1D CNNs to Classify Heart Arrhythmia from Electrocardiogram Signals
05-13	J76	113-730-81		BiomedEng	M	Yanis Herne	Benchtop Appliance for Cell Electroporation via Microfluidic Channel
05-17	H63	114-A10-A1		Chemistry	F	Saanchi Kapoor	A novel aqueous approach for the synthesis of palladium nanoparticles
05-18	B10	114-D10-31		PhysAstr	F	Kaitlyn Wang	Discovery of rare small ultra-short-period exoplanets orbiting F and G dwarfs in Kepler Survey
05-20	D35	114-D20-F2	T	PhysAstr	F/M	Arjun Shrivastava & Amanda Guo	Analyzing the Mislabeling of Quasars in X-ray Catalogs
05-22	D44	114-D30-B2	T	PhysAstr	M	Tevin Ding & Daniel Lin	First experimentally proven theory that accurately predicts thin film alloy refraction index
05-23	H98	114-D40-81		PhysAstr	M	Canis Li	Optical brightness variations of ultraluminous X-ray source Holmberg II X-1
05-24	G32	114-D50-41		PhysAstr	M	Matthew Zhang	Statistical Analysis of Stellar Binaries
05-25	G33	114-G10-D1		Math	F	Michelle Wei	Cycle Spaces of Friends-and-strangers Graphs
05-26	D26	114-H10-51		SoftEng	M	Owen Lu	Automatic Ergonomic Assessment Using Webcam Data
05-27	D96	114-H20-11		SoftEng	F	Kyleen Liao	Forecasting Air Quality in California By Modeling the Effects of Meteorology and Wildfires Using Graph Neural Networks
05-28	F84	114-H30-E1		SoftEng	M	Joe Li	A Novel Machine Learning Approach to Emotion Recognition Using Consumer Wearable Devices
05-29	F32	114-H40-A1		SoftEng	M	Anish Lakapragada	Novel Methods for Mitigation of Negative Transfer in Multi-Task Learning Models for Emotion Understanding
05-33	D40	114-H50-61		SoftEng	M	Neal Jain	Automated diagnosis of 7 retinal diseases with convolutional neural networks in a dataset of 2,234 eye images
05-34	H40	114-H70-F1		SoftEng	M	Ethan Kou	State Estimation for an Autonomous Competition Robot with an Extended Kalman Filter
05-35	H59	114-H80-B1		SoftEng	F	Sneha Muppalla	A Novel Deep Learning Approach to the Classification of Deepfake Subtypes
05-36	K91	114-H90-71		SoftEng	M	Shyamak Singh	Detecting Anomalous Vehicle Behavior at Intersections using Visual Features Estimated from a Front-Facing Camera
05-38	B22	121-210-42	T	PlantSci	M	Scott Mello & Isaac Lo	Investigating The Translocation of N-Hydroxytyrosine Through Plant Vasculature System During Pathogenic Attack
05-39	A63	121-220-11		PlantSci	F	Emily Jeon	Determining the effect of long-term exposure to glyphosate on isoflavone levels in Roundup Ready soybeans
05-40	E91	121-240-A1		PlantSci	M	Antone Jung	Acclimating Lactuca sativa and Cucumis sativus to Assimilate Acetate: a necessary step toward artificial photosynthesis
05-42	B14	121-310-D2	T	AnimalSci	F	Nhu Nguyen & Emily Gu	Effects of Caffeine on Land Invertebrate Memory
05-43	F89	121-320-A1		AnimalSci	M	Toan Bui	Simulating Traumatic Brain Injury on C Elegans under Various Strenuous Conditions With SAW(Surface Acoustic Wave)
05-44	A98	121-410-61		BiocheMic	M	Rodrigo Cantu Valadez	Can lipase from Candida rugosa positively affect Gymnodinium sp. health by degradation of environmental microplastics?
04-43	B12	121-420-21		BiocheMic	M	Kamron Emami	Examining the Anti-diabetic Properties of Norisoboldine on a Diet Induced Hyperglycemic Drosophila melanogaster model
04-41	A46	121-430-E2	T	BiocheMic	F	Anagha Rajesh & Nandini Anantha	Investigating the potential for optogenetic stimulation to regulate cardiac arrhythmias through the C. elegans pharynx
04-39	B56	121-440-A2	T	BiocheMic	F	Grace Szalay & Emilie Ma	Effect of Increased Metal Ion Concentrations on p53 Homolog Cep-1 in C. elegans

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Loc.	Code	Proj Num	Team	Field	Gender	Students	Title
04-37	B52	121-450-62	T	BiocheMic	M	Zachary Fagin & Ashwin Mukherjee	How does adding a crtYB gene in edited <i>S. cerevisiae</i> "VitaYeast" affect its biosynthesis of beta-carotene (provitaminA)?
04-36	B32	121-470-G1		BiocheMic	F	Elena Heit	Investigating the effects of beta-endorphin on the expression of pro-inflammatory cytokine genes in CD4 T Helper cells
04-35	E82	121-490-81		BiocheMic	F	Mira Sundar	Using light driven perturbation of neuronal activity to measure the synchronization structure of epileptic seizures
04-34	A94	121-510-F1		BioInfo	F	Manasi Gajjalapurna	Using unsupervised learning to identify which antihyperglycemic drugs best improve fertility biomarkers in PCOS patients
04-33	B45	121-520-B1		BioInfo	M	Faris Raza	Employing Generative Adversarial Networks and Cascaded CNNs to Reconstruct Cryo-EM Images at High Speeds and Resolutions
04-29	B95	121-530-62	T	BioInfo	F	Ananya Raman & Sahana Chowlur	Can an AI model be implemented to identify & predict a type of cancer based on different biomarkers?
04-28	I65	121-540-31		BioInfo	F	Roshni Parulekar-Martins	RandomRibo: A Novel Tool for Transcript-Level Translation Elongation Velocity Determinant Identification at Single Codon
04-27	K88	121-550-G1		BioInfo	M	Andrew Hong	Single-Cell RNA Sequencing of Cancer Tissues Using Spatial Transcriptomics and Machine Learning Methods
04-26	A96	121-610-71		MedHeaSci	F	Taara Jayaraj	Can Rutin disrupt the TGF-beta Signaling Pathway in <i>C. elegans</i> Model as a Possible Mechanism for Parkinson's?
04-24	A91	121-620-31		MedHeaSci	F	Letizia Pastore	The effect of a diet high in processed foods on intestinal <i>E.coli</i> growth associated with Inflammatory Bowel Disease.
04-22	A17	121-621-H2	T	MedHeaSci	M	Rishabh Varshney & Ethan Schein	Loop-mediated Isothermal Amplification for Detection of malB gene in Pathogenic <i>E. coli</i> in Spinach
04-21	A93	121-630-G1		MedHeaSci	F	Sasha Balasingam	Testing Shank 3-deficient <i>C. elegans</i> as an Autism model on repetitive/social deficits from my last study on NLG-1 mutant
04-20	A92	121-640-C1		MedHeaSci	M	Devon Krish	Channelrhodopsin optogenetics to manipulate and mask abnormal neurons in <i>Drosophila</i> simulated epileptic seizures
04-19	B11	121-650-81		MedHeaSci	F	Victoria Anderson	Effects of Vitamin B12 on Bacteria and Fungi Promoting Dysbiosis in Multiple Sclerosis Patients Microbiome In Vitro
04-17	F68	121-651-52	T	MedHeaSci	F _M	Shenghao Guo & Catherine Zhang	Comparing the Effects of Different Concentrations of WZB117 on Growth of Healthy and Cancerous Mice Lung Tissue Cells
04-13	A43	121-670-G2	T	MedHeaSci	F _M	Lauren Soobrian & Nikhil Morales	Investigating osteoconductive and antibacterial properties of protein based implant coatings designed for bone healing
04-11	A41	121-680-C2	T	MedHeaSci	F _M	Chloe Park & Jack Denebeim	Analyzing the Effects of GAL4-UAS Induced Overexpression of Clbn and Nufip via Intestinal Integrity of <i>Drosophila</i>
04-10	B19	121-690-91		MedHeaSci	F	Harini Nagappan	Creating gene fusions assays for diagnosis and targeted treatment of triple negative breast cancer.
04-09	D61	121-710-G1		BiomedEng	M	Christopher Sun	Investigating Dementia Onset for Alzheimer's Disease Diagnosis Through 4D Neuroimaging and Deep Learning
04-07	F57	121-720-B2	T	BiomedEng	M	Johnathan Mo & Robert Zhang	Anxiastrap: a Discreet, Electrically-Activated Compression Band for Anxiety Disorder Alleviation
04-05	A20	122-A10-92	T	Chemistry	M	Kai Karadi & Jack Chang	Analyzing the effects of esterified lignin on the degradative properties

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Loc.	Code	Proj Num	Team	Field	Gender	Students	Title
04-03	B30	122-A20-52	T	Chemistry	F	Sarah Su & Alexandra Chatwin	of lignin Poly(lactic acid) composite plastics
04-02	C91	122-A30-21		Chemistry	F	Mena Zambre	Accessible Synthesis of the Tricyclic Core of Forskolin as an Adenylyl Cyclase Activator against Cellular Senescence
04-01	B13	122-A40-F1		Chemistry	F	Alyssa Manche	Fragment-based Approach to RAGE inhibition: Potentially Blocking Amyloid Beta Re-uptake with a small indole scaffold.
03-02	J40	122-A50-B1		Chemistry	F	Amarrah Len	Design, synthesis, and BCR-AbI targeting activity of novel Dasatinib PROTACs towards the treatment of cancer
03-03	B82	122-B10-21		CheEnvEng	M	Howard Shu	Effect of Hard Water on Hair Tensile Strength
03-05	F29	122-B20-E2	T	CheEnvEng	F	Jia Gill & Danica Kubota	Investigating how polymer doping for the electron transport layer affects efficiency in tin-based perovskite solar cells
03-07	A31	122-C10-A2	T	EarEnvSci	F	Mihika Jain & Ella Yuen	Using Reinforcement Learning and Remote Sensing Data to Optimize Long-Term Fire Management Plans
03-08	E55	122-C20-71		EarEnvSci	M	Rohan Bhowmik	Testing degradation efficiency of specific hydrocarbons found in crude oil using free and immobilized microorganisms.
03-09	J90	122-C30-31		EarEnvSci	F	Sarai Castaneda	A Multi-Modal Wildfire Prediction and Early-Warning System Based on a Novel Machine Learning Framework
03-10	E72	122-D10-31		PhysAstr	F	Manxi Shi	Implications of Socioeconomic Geography Assessed Using Public Satellite Data
03-11	K10	122-D20-G1		PhysAstr	F	Amelia Yu	Investigation of particle-fluid interactions in a channel with the Lattice Boltzmann Method
03-12	K60	122-D30-C1		PhysAstr	M	Yu-Ting Chang	Developing and Using a Novel Convolutional Neural Network Program to Discover and Confirm Exoplanets
03-13	I15	122-D40-81		PhysAstr	M	Erick Zaragoza	Computational Acceleration in Astrophysics Simulations with Python Programming
03-17	A85	122-E10-C1		ElecEng	M	Stanley Shen	Effects of Solar Radiation Pressure on Orbital Trajectory of Long Duration Uncrewed Missions to Mars
03-18	B41	122-E20-81		ElecEng	M	Austin Wu	Reducing the Impact of Circuit Boards through Flax Composites Substrates and Laser Ablation Patterning
03-19	J10	122-E30-41		ElecEng	M	Roy Gross	Hardware Acceleration of Sequential Logic Functions in Vector Processors through the use of a Modified FPGA Architecture
03-20	J80	122-E40-H1		ElecEng	M	Jaythan Dao	Tactical Drone Detection and Tracking using Machine-Learned Radio Interferometry: Lessons from Ukraine
03-21	J27	122-F10-41		MechEng	M	Daniel Siegel	AutoBlinds: An IoT Device Automating Interior Blinds Based on Environmental Data for Greater Insulation
03-22	I39	122-G10-D1		Math	M	Alan Lee	OctoGrasp: The Design and Construction of a Cephalopod-Inspired Prosthetic Arm
03-23	A16	122-G20-91		Math	M	Yuval Amit	Connectedness in Friends-and-Strangers Graphs of Spiders and Complements
03-24	A83	122-H10-51		SoftEng	M	Jeremy Lu	A Metascientific Analysis of How Restricting p-Values in Research Journalism Affected Research Trends
03-26	D53	122-H11-31		SoftEng	M	Milind Maiti	A Novel Approach to Optimize Memory Reconstruction Using Joint Multimodal Networks
03-27	B71	122-H20-11		SoftEng	M	Sarthak Jain	Code-Explainability Analysis of Jupyter Notebooks using Deep Learning
03-29	J75	122-H21-F2	T	SoftEng	M	Fnu Yash & Aniket Gupta	Semantic Based Human Background Translation using Encoder Decoder Networks
							PyLPR: Using darknet and yolov4 to build a custom license plate recognition tool.

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Loc.	Code	Proj Num	Team	Field	Gender	Students	Title
03-30	A47	122-H30-E1		SoftEng	M	Michael Young	A Tensor-Driven Movement Analysis on Elderly Communities
02-30	H14	122-H31-C1		SoftEng	M	Adrian Bao	Neural-Network Based CAPTCHA Solver
02-29	A45	122-H40-A1		SoftEng	F	Susan Clay	Using Structural and Toxicity Data with Neural Networks to Predict the Toxicity of Hydroxy Ethyl Amine Moiety
02-26	C39	122-H50-52	T	SoftEng	M	Aakash Kumar & Amanjyoti Mridha & Sooraj Vydyanathan	An end to end system for autonomous 3D model construction to analyze pertinent areas in natural disasters
02-25	F75	122-H60-21		SoftEng	F	Mridula Naikawadi	Breast Cancer detection using Hybrid Classical and Quantum Machine Learning
02-24	F73	122-H70-F1		SoftEng	F	Nidhi Mathihalli	Using Comp Eng and AI/ML to Create a Currency Detection Device for the Visually Impaired in Third World Countries
02-23	D47	122-H80-B1		SoftEng	M	Jai Sharma	A Novel Deep Learning Approach to Automated Cell Migration Tracking and Segmentation
02-21	G97	122-H90-71		SoftEng	F	Sanjana Manikandan	Deep Learning Based Detection of Human Accidents and Distress Situations with Audio Classification
02-19	A42	123-210-62	T	PlantSci	M	Viktor Kieturakis & Jake Meyer	Investigating the Effects of N-hydroxy-pipecolic Acid on Systemic Acquired Resistance Mechanisms in Citrus medica
02-18	B21	123-310-G1		AnimalSci	M	Sreyan Sarkar	Identifying the receptors involved in detecting valeriana officinalis extracts through chemotaxis assays of C. elegans
02-17	C95	123-510-H1		BioInfo	F	Tiffany Chang	Crucial Pathogenic Role of Elevated Mast Cells in Pulmonary Fibrosis Revealed by Single-Cell RNA Sequencing Analysis
02-14	B40	123-530-91		BioInfo	F	Sudikshaa Amar	Using RosettaDock to Model Peptide Toxin-Ion Channel Interactions for Pain and Excitatory Inhibition
02-13	J28	123-540-51		BioInfo	F	Catherine Zhou	A Novel Machine Learning-Based Computational Pipeline for Alternative Splicing Analysis of Single-Cell RNA Sequencing Data
02-12	J22	123-550-11		BioInfo	M	Alexander Lan	A Novel Twin Convolutional Neural Network to Decipher the Functional Effect of Genetic Variants in Alzheimer's Disease
02-11	K61	123-560-E1		BioInfo	M	Saurish Srivastava	Scant Evidence for Domain-General Metacognition
02-10	E44	123-610-91		MedHeaSci	F	Sabrina Zhu	A Novel MiRNA Therapeutic for Drug Addiction: Effects of Opioid Self-Administration on MiRNA and Gene Expression in Rats
02-08	G26	124-C10-D1		EarEnvSci	M	Brian Chen	Unearthing Deep Earthquakes: New detections of upper-mantle intra-continental earthquakes in North America
02-07	D25	124-D10-51		PhysAstr	F	Iona Xia	Discovering Rare Ca II Quasar Absorption Lines with a Neural Network
02-06	G39	124-D20-11		PhysAstr	M	Kenneth Shui	An Improved Method for 2D Phase Retrieval for X-Ray Free Electron Laser Applications
02-04	A28	124-E10-D2	T	ElecEng	M	Rohan Bhatt & Kevin Agarwal	Enhancing Optical Communications by Controlling Reflection-Induced Chaos in Lasers
02-03	A34	124-G10-F1		Math	F	Sally Zhu	On the Smoothness and Regularity of the Chess Billiard Flow and Internal Waves
02-02	B25	124-H10-71		SoftEng	F	Lisa Fung	Developing a Coupled Matrix-Tensor Factorization Model in Python to Analyze Mobility Data for Disaster Response
02-01	I66	124-H20-31		SoftEng	F	Snikitha Banda	Early Survival and Recurrence Prediction for Diabetes Patients via Biomarker Discovery in Text-Based Clinical Narratives