We thank you for your time spent taking this survey.
Your response has been recorded.

Use this survey to tell us which projects you'd like to work on this year. We'll **try** to get you into one of your top 6 six choices (or a project requiring similar skills/knowledge). See the project portal:
https://eecs.engineering.oregonstate.edu/capstone/submission/pages/browseProjects.php

NOTES: **Download a pdf or screen shot of the summary shown on the last page**.
This copy will be due in Canvas.**The survey will close at 5:00 PM, Sept 30, 2024.**

2A. Enter a **1** in the box next to your **TOP CHOICE**, enter **2** for your **second choice**, and so on....for **6 projects**

If you do not see a project on this list, it is not available to you because it has already been assigned.

If you were pre-approved for an unlisted project, please include its title and add other rankings.

☐	Did you get pre-approval for a custom project? Include Title here:

☐ 2024-25 AudioLux Audio Visualizer

☐ 2024-25 Loom: Modular Internet-of-Things Sensor-Actuator System for Rapid Prototyping

☐ 3D Tetris using Augmented Reality

☐ 4-H Record Books (Year 2)

`6` A Self-Learning Cyber-Physical Robotic System Powered by LLM

☐ Active Learning and Interactive Engagement in Engineering through a Searchable Repository

☐ AgBiz Logic: Mapping geospatial location data to economic and environmental data

☐ AgBiz Logic: Measuring Environmental and Economic Trade-offs of Agricultural Chemicals

☐ AgBizLogic AI UX

`3` AI-assisted Features for BRI Growth Forge Software

☐ AI-Powered Customizable Multivendor E-commerce Platform

☐ Architectural Lighting Design: Image Processing and Analysis Software

`1` Cloud-Based Algorithmic Trading Strategies for Individual Investors

☐ Collaborative Note Website

☐ Corvallis Connect

☐ Count How Many Out There

☐ Creating Portland's open data digital commons

☐ DigiClips Media Search Engine (2024-25)

☐ Engineering Simulations with Game Development Tools

☐ Enhancing Localized Deformation Analysis in Materials Science Using AI/ML...

☐ Enobase (International Project Partner)

☐ Fitness Events Management and Organization (Web and Mobile Apps)

☐ Fuel kiosk data collection at remote bulk fuel sites throughout Oregon (CS Team)

☐ Games for Healthy People and Healthy Planet

☐ Gamification of PharmD classes

- [ ] Heterogeneous Computing For Embedded Machine Learning
- [2] High-Performance Library for Big Data Analysis and Visualization (2024-25)
- [ ] Human-Robot Meditation Retreat: Development, Deployment, and Assessment
- [ ] Industrial Hemp Stakeholder Database (2024-25)
- [ ] Interactive Survey Tools for Data Visualizations
- [ ] Lavender Shift Work Sleep Disorder Platform (2024-25)
- [ ] LLM Agents on the Edge (HP)
- [ ] Low-cost bacterial colony processing system
- [ ] MetaNaviT: A Handy Tool for Resource Mapping & Extraction (ADVANCED PROJECT)
- [ ] Markup Maps - Aquifers
- [ ] Modbus TCP Connectivity for Fully Automated Greenhouse
- [ ] Online Shader Studio
- [ ] Open Response - Open Source Classroom Polling Software (2024-25)
- [ ] Parchment (2024-25)
- [ ] Personal Data Acquisition Prototype
- [ ] Privacy-Friendly Baby Tracking App (iOS)
- [ ] Privacy-Friendly Period Calendar and Pregnancy Tracker App (iOS)
- [ ] RoboRacer (Garmin)
- [ ] Prototype a web-based tool for creating and executing...AI-assisted assignments
- [ ] RAG to Riches: Revolutionizing Submittal Reviews with AI
- [ ] Revolutionizing Higher Ed Rankings
- [ ] Roboracer
- [4] Scaling Artificial Intelligence using the Chapel Programming Language
- [ ] Student Experience Story Archive Project (SESAP) Website Data Integration & AI Analyses
- [ ] The Unknown Venome (2024-25)
- [5] Using agentic workflows to build AI-integrated assignments for introductory psychology
- [ ] VibroSonics: Haptic Audio Sensations: CS Team
- [ ] UX/UI Collaborative
- [ ] Multipurpose Seating Buck for Vehicle and Aircraft Simulation
- [ ] Targeted Social Media Algorithm

3. Describe your reasoning behind your **top six** choices. **Please write a compelling reason for your preference.** This reason will help us decide whether you or someone competing for the project will be assigned to the team.

reason for choice 1	My academic focus is in data science and finance. Last summer I had the opportunity to intern for Canadian Imperial Bank of Commerce in Chicago Illinois. I gained experience in researching companies and presenting buy side reports. My manager was the lead quantitate analyst and they gave me projects to work on where I wrote algorithms for finding buy/sell points. After the internship I was watching YouTube videos explaining how back propagation worked in machine learning programs. Following the theory of the video I wrote my own python ML program that would learn from 15 days of price data and predict what would happen on the 16th day. I would love to bring my experience to the team!
reason for choice 2	With my CS focus being in data science I would love to work on a project on big data analytics. I am currently taking a class on data mining and another in data visualization!
reason for choice 3	With my CS focus being in data science I would love to work on a project on big data analytics. I am currently taking a class on data mining and another in data visualization!
reason for choice 4	I found myself watching a YouTube video explaining how back propagation worked in machine learning programs. Following the theory of the video I wrote my own python ML program that would learn from 15 days of price data and predict what would happen on the 16th day. I would love to bring my experience to the team!
reason for choice 5	I found myself watching a YouTube video explaining how back propagation worked in machine learning programs. Following the theory of the video I wrote my own python ML program that would learn from 15 days of price data and predict what would happen on the 16th day. I would love to bring my experience to the team!
reason for choice 6	Something data science related.

4. List the name of one person in class you'd prefer not to work with (Optional).

Q11. What was your process for choosing a project?

I scrolled through the project list and looked for titles that were interesting and would be relevant to my career goals. I had to skip those that were 3 month projects or online.

Q9. Is there anything else you'd like to share withe the instructors of the course.

For the past 5 years I have worked at a Mexican restaurant. I started as a busser my senior year of high school where I learned how to balance school and work. I became one of the hardest working bussers and a friend of all of the staff. Over the years I kept up this hard work as a busser hoping one day I would get promoted. I learned the hard way that I would need to speak up for myself to get a promotion and it wouldn't just be given to me. By learning the menu and coming in for training I eventually became a food runner taking meals to tables. After learning how to advocate for myself, a few months later I requested to become a server. After finally becoming a server I looked back on my journey and noticed how hard I worked. Other employees would often complain about customers or about doing a task, while I tried to always have a positive attitude. These attributes of mine have allowed me to become very good at customer service. My tables frequently ask to speak to a manager after dinner where the praise how enjoyable of an experience they had with me as their server. My coworkers enjoy working with me as I often pick up the slack and make the day easier for everyone. I enjoy working hard and found myself working 6-7 days a week, picking up shifts on my days off.