Aragya Goyal

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EDUCATION

University of Pittsburgh

Pittsburgh, PA

B.S. - Computer Engineering (Autonomous Systems Focus); GPA: 3.99

August 2022 - April 2026

SKILLS

• Languages: Python, C++, ARM Assembly

• Technologies: Linux, ROS, Github, Solidworks, MATLAB, Microsoft Products, Arduino, Raspberry Pi, OpenCV

• Manufacturing: Milling, Soldering, Laser Cutting, General Shop Tools

Relevant Experience

Carnegie Mellon University - Robotics Institute (Biorobotics Lab)

Pittsburgh, PA

Undergraduate Researcher (Part-Time)

April 2023 - Present

- Project Course Find Movie Similarity from Plot Summaries: Created project based course using Unsupervised learning and natural language processing.
- Tutorial Introduction to Reinforcement Learning: Created tutorial for Q-learning RL algorithm and concepts.
- Impact: Course has been taken by 250+ students so far with 4.65 average rating.

Society of Astronautics and Rocketry

Pittsburgh, PA

Chief Engineer (Student Led Organization)

August 2022 - Present

- Project Course Find Movie Similarity from Plot Summaries: Created project based course using Unsupervised learning and natural language processing.
- Tutorial Introduction to Reinforcement Learning: Created tutorial for Q-learning RL algorithm and concepts.

Formula SAE - Panther Racing

Pittsburgh, PA

R&D Engineer (Student Led Organization)

August 2022 - March 2024

- Project Course Find Movie Similarity from Plot Summaries: Created project based course using Unsupervised learning and natural language processing.
- $\circ \ \, \textbf{Tutorial Introduction to Reinforcement Learning} \colon \text{Created tutorial for Q-learning RL algorithm and concepts}.$

UPMC - Laboratory of Ocular Biomechanics

Pittsburgh, PA

Undergraduate Researcher (Volunteer)

January 2023 - May 2023

- Project Course Find Movie Similarity from Plot Summaries: Created project based course using Unsupervised learning and natural language processing.
- Tutorial Introduction to Reinforcement Learning: Created tutorial for Q-learning RL algorithm and concepts.

FIRST Robotics Exton, PA

Undergraduate Researcher (Volunteer)

January 2023 - May 2023

- Project Course Find Movie Similarity from Plot Summaries: Created project based course using Unsupervised learning and natural language processing.
- $\circ \ \, \textbf{Tutorial Introduction to Reinforcement Learning} \colon \text{Created tutorial for Q-learning RL algorithm and concepts}.$

VEX Robotics

Royersford, PA

Undergraduate Researcher (Volunteer)

January 2023 - May 2023

- Project Course Find Movie Similarity from Plot Summaries: Created project based course using Unsupervised learning and natural language processing.
- Tutorial Introduction to Reinforcement Learning: Created tutorial for Q-learning RL algorithm and concepts.

TECHNICAL PROJECTS

- STM-32 Elevator Simulator (ARM Assembly, PCB Design, Project Integration): Designed and Implemented software architecture in ARM Assembly to operate a physical elevator simulator PCB. (Link: https://github.com/Aragya1642/STM32_Elevator_Project/tree/master)
- Custom Cane (Human Centered Design, Solidworks, Presentation): Designed and manufactured a Walker-Cane Fusion to make bathrooms more accessible for wheelchair users. The project won first place at the Senior Design Expo within its category. (Link: https://tinyurl.com/CustomCane)
- Silicon Soft-Actuated Prosthetic Hand (Research, Solidworks): Designed and Manufactured prototype prosthetic hand with silicone soft actuators and tested with human participants for AP Capstone research project. (Link: https://tinyurl.com/myprosthetic)

Honors and Awards

- Awarded title of Intel Software Innovator May, 2019
- Second Runner's Up at TCS EngiNx Engineering Project Innovation Content September, 2018
- $\bullet\,$ Runner's Up at Facebook Developers Circle Hackathon August, 2017

