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.
- o Tutorial Introduction to Reinforcement Learning: 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.
- o Tutorial Introduction to Reinforcement Learning: 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.
- o Tutorial Introduction to Reinforcement Learning: Created tutorial for Q-learning RL algorithm and concepts.

TECHNICAL PROJECTS

- Vison multimedia search engine (NLP, Search Engine, Web Crawlers, Multimedia Processing): (Work in progress) Research oriented, open source, search engine for bringing reverse multimedia search to small & mid scale enterprises. Tech: Python, NodeJS, Intel OpenVino Toolkit, Selenium, TensorFlow (October '18)
- Reinforcement Learning based Traffic Control System (Reinforcement Learning, Computer Vision): AI model to resolve city traffic around 50% faster. Tech: Python, Alibaba Cloud, Raspberry Pi, Arduino, SUMO & OpenCV. (August '18)
- Panorama from Satellite Imagery using Distributed Computing (Distributed Computing, Image Processing): Images clicked using drones, provided by ISRO were stitched together using distributed public compute nodes, effectively bringing down processing time exponentially. Tech: PHP, C++, Java, Python (March '18)
- Drag-n-drop machine learning learning environment (Web Development, Machine Learning): Scratch like tool for implementing machine learning pipelines along with built in tutorial for each concept. Tech: Python, JavaScript (September '18)

HONORS AND AWARDS

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