

Arsh Banerjee

A senior at Princeton University majoring in Computer Science with minors in Optimization, Machine Learning, and Cognitive Science. A machine learning fanatic who loves the puzzle of utilizing computer vision and natural language processing to tackle challenges.

Experience

Verizon, Branchburg, NJ — *Software Engineering Intern*

June 2023 - August 2023

Proposed and implemented scalable solutions to automate performance checks of the devices that are the backbone of Verizon's network. Collaborated with other team members to deploy production code to ensure network health and create visualization tools tying together different databases

Verizon, Basking Ridge, NJ — *Software Engineering Intern*

June 2022 - August 2022

Created a system for the coordinated driving of robots based on computer vision. Designed an end-to-end computer vision pipeline to track multiple objects and their velocities to allow for seamless movement of robots, with computing done on an AWS instance.

NJIT iXR Lab, Newark, NJ — *Data Analytics Intern*

June 2019 - August 2019

Used machine learning and data analytics tools (Python & R) to analyze data from mixed reality (XR) applications to aid in the design of gaze-contingent displays for gaming and social applications for the Interactive Cross-Reality Lab research team

Education

Princeton University — *B.S.E. in Computer Science*

September 2020 - May 2024

Pursuing minors in Optimization and Quantitative Decision Science, Statistics and Machine Learning, and Cognitive Science

Bayonne High School

September 2016 - June 2020

Valedictorian, National Merit Scholar, Student Government President

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(201) 918-1312

Princeton, NJ

Skills

Programming Languages:

Python, Java, Go, R, ROS, Matlab

Libraries & Frameworks:

OpenCV, Tensorflow, Keras, XGBoost, PyTorch, Pandas, Numpy, Git/Github, Linux, AWS

Courses:

Computer Vision, NLP, Machine Learning, Data Structure and Algorithms, Optimization, Machine Learning with Social Data

Awards

Intel Excellence in Computer Science Award - 2019

Fourth Place at Intel International Science & Engineering Fair - 2017

Projects

Detecting AI-Generated Images

Involved development of a tool for detecting AI-generated images from diffusion models

Robotic Path Planning

A system that tracks multiple robots and changes their velocities autonomously

Image Geolocation

Uses Computer Vision to perform geo-location

Interests

Drone photography, Hiking, Volunteering (Red Cross Social Media Volunteer)