
EDUCATION

Cornell University*Bachelor of Computer Science; GPA 3.54*

Ithaca, New York

*August 2022 - May 2026***Stuyvesant High School***GPA: 95/100*

NYC, New York

September 2018 - June 2022

EXPERIENCE

OnePointFive*Data Science Associate · Operations*

NYC, NY

June 2023 - Present

- **Sustainability Article Generator:** Developed a content-based article recommendation engine in Python, leveraging Pandas and Scikit-learn libraries. Applied exploratory data analysis and CountVectorizer for preprocessing, implemented cosine similarity score for establishing inter-article relationships, and designed a function to generate top recommendations.
- **Funnel Analysis:** Executed data collection and cleaning techniques to create a comprehensive dataset for sales funnel analysis. Created a Sankey diagram which illustrated customer retention and guided strategic business decisions.

Cornell Tech*Software Engineering Intern · FarLabs*

NYC, NY

June 2023 - Aug 2023

- **TrashBot:** Collaborated on deploying two remote trash robots(covered by Fox5 and Spectrum News), initiating a Wizard of Oz study to explore human interactions with autonomous robots. Established a video-coded dataset, utilizing YOLO for analysis, to pinpoint key interaction patterns.
- **MiniBot:** Leveraged ROS to program minibot functionality, a scaled-down model of Trashbot. Orchestrated live image data retrieval from an ESP-32 Cam, adeptly managing linear and angular velocity values for optimal robot performance.

Medgar Evers College*Software Engineering Intern · SEO Team*

NYC, NY

Jan 2023 - May 2023

- **Search Engine Optimization:** Implemented meta tags and keyword optimization in website content, enhancing visibility and search engine ranking. Leveraged link building, mobile optimization, and structured data markup, to improve organic website traffic.
- **UX redesign:** Spearheaded a new design of Medgar College's website, employing Figma to improve UX and increase responsiveness. Translated high-fidelity Figma designs into a fully functional website. To be deployed Spring 2024.

PROJECTS

COVID-19 Data Set: R: Conducted exploratory data analysis and statistical modeling to produce summary statistics that identify trends in COVID data. Executed complex data cleaning and transformation processes to ensure the web scraped data from gov agencies was accurate.

Drowsiness Detection: Python, Pytorch, OpenCV, YOLO: Convolutional Neural Network approach to fine-tuning and training a custom YOLOv5 model to detect human eye movement. Utilized OpenCV to gather webcam images and created a dataset to classify and label these images as open or closed.

Parkinsons Disease Detection: Python, Pytorch: Trained the XGBoost machine learning model on a large dataset of Parkinsons patients, optimizing prediction precision. Performed data cleaning and preprocessing techniques including normalization and missing data inputs to ensure data accuracy.

PROGRAMMING SKILLS

Languages: Python , Java , R , Kotlin , HTML/CSS , JavaScript , SQL

Development Tools: Machine Learning , Git/Github , Figma

Frameworks: NodeJs , React.js , Pytorch , Flask , Bootstrap 5

Libraries: pandas , NumPy , Pytorch , Flask , Bootstrap 5 , SQLite , R: ggplot2, tidyr, janitor