Claudio Perinuzzi

631-806-8958 | perinuzzic@gmail.com | linkedin.com/in/claudio-perinuzzi | https://claudio-perinuzzi.github.io/portfolio-website/

EDUCATION

Queens College, City University of New York *GPA: 3.85/4.00*
Master of Arts in Computer Science May 2025
Bachelor of Arts in Computer Science December 2024

TECHNICAL SKILLS

Programming: Python, Java, C++, JavaScript, HTML/CSS, MySQL, MATLAB
Frameworks: React, Streamlit, Pandas, Matplotlib, NumPy, PyTorch, Scikit-Learn, OpenCV
Tools: Git, GitHub, Unix, Bash, Docker, Roboflow, Tableau, eClinicalWorks (EHR)

EXPERIENCE

Data Manager May 2016 - Present
East End Hand Surgery *Port Jefferson, NY*

- Manage and organize 2+ TB of internal records, ensuring data integrity and security of backups.
- Implement internal software tools using python to streamline and automate tasks such as directory creation and encryption of multiple files, saving my team 12+ hours each month.
- Successfully reorganized the company's file structure, leading to a 2× increase in productivity by improving file retrieval and storage efficiency.

Machine Learning Specialist - LLM Training & Debugging April 2024 - Present
Data Annotation Tech *New York, NY*

- Apply Reinforcement Learning from Human Feedback (RLHF) to enhance the efficiency and adaptability of machine learning models.
- Debug and optimize code provided by models while ensuring compliance with legal/ethical standards.
- Leverage prompt engineering techniques to evaluate and improve model performance.

Data Science & Software Engineering Fellow July 2024 - Present
CUNY Tech Prep *New York, NY*

- Accepted into a highly competitive year-long fellowship where I utilize machine learning and data science techniques such as data engineering, data visualization, model evaluation and optimization.
- Gained hands-on experience in software engineering practices, including software design, system architecture, version control, and front-end development with React, to create interactive and dynamic user interfaces.

PROJECTS

Learn American Sign Language | GitHub Repository December 2024

- Collaborated with a team to train and fine-tune an Ultralytics YOLO object detection model for recognizing and classifying ASL (American Sign Language) gestures, achieving a precision of 97.8%.
- I contributed to building the backend in Python, leveraging Roboflow for data preprocessing and augmentation, and contributed to building a React-based frontend in JavaScript.

NYC Air Quality Heat Map Predictor | GitHub Repository | Live Demo September 2024

- Developed a Streamlit web app using NYC OpenData to visualize, analyze, and predict yearly AQI trends for NYC neighborhoods.
- Utilized pandas for data handling and scikit-learn for machine learning, achieving 97% accuracy.

Social Media Addiction Predictor | GitHub Repository | Live Demo May 2024

- Implemented a Random Forest machine learning model in Java to predict social media addiction given user-provided information, including social media habits and socioeconomic background.
- The model achieves an average accuracy of 98%, ensuring reliable predictions.

PDF Encrypt | GitHub Repository July 2023

- Developed a Python-based Graphical User Interface (GUI) to efficiently encrypt multiple PDFs simultaneously, allowing users to save time by securely encrypting files in bulk.