

# Claudio Perinuzzi

631-806-8958 | perinuzzic@gmail.com | [linkedin.com/in/claudio-perinuzzi](https://www.linkedin.com/in/claudio-perinuzzi) | <https://claudio-perinuzzi.github.io/portfolio-website/>

## EDUCATION

### Queens College, City University of New York

Master of Arts in Computer Science

Bachelor of Arts in Computer Science

GPA: 3.85/4.00

May 2025

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 automate repetitive tasks such as directory creation, email generation, and batch file encryption, saving my team 8+ hours each week.
- 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

### Gesture Once | [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.