

# Claudio Perinuzzi

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## EDUCATION

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

<b>Stony Brook University, State University of New York</b>	
<i>Bachelor of Science in Biology</i>	May 2019

### Relevant Coursework:

Data Science & Analytics, Data Mining & Warehousing, Software Engineering, Deep Learning, Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Database Systems, Distributed Systems, Internet & Web Technologies, Probability & Statistics, Microbiology, Genetics

## TECHNICAL SKILLS

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**Programming:** Python, Java, C++, JavaScript, HTML/CSS, PostgreSQL, MySQL, MATLAB

**Frameworks:** React, Streamlit, Pandas, SQLAlchemy, Matplotlib, NumPy, PyTorch, Scikit-Learn, OpenCV, FastAPI

**Tools:** Git, GitHub, Unix, Bash, Docker, Roboflow, Tableau, eClinicalWorks (EHR)

## EXPERIENCE

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<b>Data Manager</b>	May 2016 - Present
<i>East End Hand Surgery</i>	<i>Port Jefferson, NY</i>

- 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.

<b>Machine Learning Specialist - LLM Training &amp; Debugging</b>	April 2024 - Present
<i>Data Annotation Tech</i>	<i>New York, NY</i>

- 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.

<b>Data Science Fellow</b>	July 2024 - Present
<i>CUNY Tech Prep</i>	<i>New York, NY</i>

- Accepted into a highly competitive year-long data science fellowship where I utilize machine learning and data science techniques such as data engineering, exploratory data analysis (EDA), statistical modeling, data visualization, model evaluation and optimization.

## PROJECTS

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<b>C-Sphere</b>   <a href="#">GitHub Repository</a>	May 2025
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- Implemented semantic vector search, embedding-based retrieval, and AI-generated summarization as part of a Retrieval-Augmented Generation (RAG) pipeline for C-Sphere, a full-stack web app and Chrome extension that enables users to rediscover saved bookmarks through intelligent search.

<b>Gesture Once</b>   <a href="#">GitHub Repository</a>	December 2024
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- 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%.
- Built the backend in Python, leveraging Roboflow for data preprocessing and augmentation, and contributed to building a React-based frontend in JavaScript.

<b>NYC Air Quality Heat Map Predictor</b>   <a href="#">GitHub Repository</a>   <a href="#">Live Demo</a>	September 2024
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- 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.