Claudio Perinuzzi

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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
Stony Brook University, State University of New York
Bachelor of Science in Biology 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

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

EXPERIENCE

Software Developer/Data Manager May 2016 - Present
East End Hand Surgery *Port Jefferson, NY*
- Develop Python applications to integrate with EMR systems, automating clinical workflows such as patient directory creation, email generation, and file encryption, saving staff 8+ hours each week.
- Manage 2+ TB of sensitive patient records, ensuring data integrity and security of backups.
- Led the successful reorganization of the company's file structure, significantly improving data retrieval and storage efficiency by 2x and directly contributing to increased clinical productivity.

Machine Learning Specialist - LLM Training & Debugging April 2024 - Present
Data Annotation Tech *New York, NY*
- Apply Reinforcement Learning from Human Feedback (RLHF) to enhance ML model efficiency.
- Debug/optimize code, ensuring compliance with ethical standards in data-sensitive environments.
- Leverage prompt engineering techniques to evaluate and improve model performance.

Data Science Fellow July 2024 - May 2025
CUNY Tech Prep *New York, NY*
- Accepted into a highly competitive year-long data science fellowship utilizing machine learning and data science techniques such as data engineering, exploratory data analysis (EDA), statistical modeling, data visualization, model evaluation and optimization.

PROJECTS

C-Sphere | GitHub Repository May 2025
- Collaborated with a team of 3 to build a full-stack web app that intelligently summarizes, organizes and helps users rediscover saved bookmarks through advanced search capabilities.
- Engineered a Retrieval-Augmented Generation (RAG) backend pipeline by combining intelligent content summarization, semantic vector search, and embedding-based storage/retrieval, resulting in optimized user data storage and intelligent content querying.

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%.
- Built the backend in Python, leveraging Roboflow for data preprocessing and augmentation, and contributed to building a React-based frontend in JavaScript.

Breathe NYC | GitHub Repository | Live Demo September 2024
- Developed a Streamlit web app using NYC OpenData public datasets to visualize, analyze, and predict yearly/seasonal AQI (Air Quality Index) trends for NYC neighborhoods, achieving 97% accuracy.

- Leveraged pandas and scikit-learn to build a data cleaning and machine learning pipeline, delivering actionable insights from raw data via an intuitive interface for critical decision support.

MindfulNet AI | GitHub Repository | Live Demo May 2024

- Implemented a full-stack web application that predicts social media addiction with 98% accuracy and offers personalized healthy habit recommendations based on user interests and location.
- Built a Random Forest machine learning model in Java to predict social media addiction given user-provided information, including social media habits and socioeconomic background.

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.