Claudio Perinuzzi

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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

Relevant Coursework:

Software Engineering, Data Science, Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Database Systems, Distributed Systems, Internet & Web Technologies.

TECHNICAL SKILLS

Programming: Python, Java, C++, JavaScript, HTML/CSS, MySQL, MATLAB
Frameworks: React, Streamlit, Pandas, Scikit-Learn, TensorFlow, Keras, OpenCV, Ultralytics YOLO
Tools: Git, GitHub, Unix, Docker, Roboflow, Tableau, eClinicalWorks

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 to streamline and automate tasks such as directory creation and encryption of multiple files, saving my team over 12 hours each month.

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 Python web app with Streamlit to visualize and predict yearly and seasonal AQI (Air Quality Index) values for NYC neighborhoods.
- Utilized pandas for data manipulation, geopandas and folium for geospatial mapping, and scikit-learn for machine learning. The application trains a linear regression model to predict future AQI values.

Social Media Addiction Predictor | GitHub Repository | Live Demo   May 2024
- Implemented and trained 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.