Michael Romero

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Education

California State University Long Beach - Bachelors of Science, Mathematics and Statistics (2020)

Orange Coast College – Associate of Science, Mathematics (2016)

Professional Experience

Coppola Ventures (Super) - Machine Learning Intern (3/2024-)

- Develop machine learning models for solutions in food tech.
- Create app (react.js) for client and customer use.

Leaf Group - Software Developer / Data Analyst (1/2021-1/2024)

- Provide data support (BigQuery, Semrush) for editorial and SEO teams.
- Create data pipelines (MongoDB, SQL) to update and improve web domains automated with Jenkins.
- Build tools (Python, JavaScript) for monitoring site analytics, financial forecasting, and content generation (Stable Diffusion, LLMs).

Sports Betting Innovation Analytics - Data Scientist (2019-2021)

- General Machine Learning Operations including gather, preprocess and feature creation from data (MongoDB, DynamoDB).
- Design, develop, and implement advanced AI models (Prediction, Simulation, Transfer Learning) in Pytorch and Tensorflow.
- Create tools to automate (Apache Airflow) training models hosted on AWS.

California State University Fullerton - Math Department Tutor (2018-2019)

- Individual and class instructor for upper division courses: single/multi variable calculus, linear algebra, modeling differential equations, probability/statistics, complex/abstract analysis, research assignments, etc.

BoardWest - Software Developer (2017-2019)

- Create software to automate processing orders, printing shipping labels, updating inventory (MySQL), and processing emails (Selenium).
- Applications ran on local network, AWS, and online for remote employee access.

Skills (Technology)

Expert: Python, SQL, Machine Learning (reinforcement/transfer learning, computer vision, natural language processing).
Proficient: R, MATLAB, C++, JavaScript, HTML5, CSS.
Experience: Linux, Git, Emacs, Tableau, Docker, Kubernetes.

Skills (Science)

Statistics, Probability, Optimization, Information Theory, Mathematical Modeling, and Analysis.

Supplemental Information

Certifications

AWS Certified Data Engineer (2024)

Google Data Analytics Professional Certificate (2024)

Amazon Web Services – Technical Skills (Sept 2023)

Udemy - Machine Learning, Data Science and Deep Learning with Python (May 2021)

Udemy - Python for Data Science and Machine Learning (April 2021)

Projects

Machine Learning

Machine Learning Sandbox - Experiment with different Machine Learning Models on an easy to use website. Back test on historical data to compare accuracy or compare predictions from different algorithms.

Fortnite Aim Bot - Program runs concurrently with game window to detect and display enemies during live runtime. Auto fires at detected enemies.

Computer Vision App – Django web application passes user upload images through Tensorflow's Resnet v2 and display results with bounding boxes. Option to use Resnet50 for faster object classification.

FaceAnon App – Blur faces from video and image files with Yolov5. Repo is wrapped into single executable file found in README.

Automation

Student Record Consolidation – Consolidate student records on the web database Slate. Consolidate by features like same University key, same address, etc. I've wrapped this script as an .exe for Chapman University remote employee use.

PyMovieSearch – Find which platforms carry a movie title by using a web crawler to auto query for live results.

Ebook to PDF - Converts eBooks only viewable on proprietary software to downloadable pdfs with searchable text.

Offer Up - Logs into OfferUp and submits offers at given fraction of listing price. Filtering options available.

Instagram Automation - Organically grow instagram account by engaging with followers of specific demographic.