Gino Angelici

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Education

University of California, San Diego Spring 2025
Bachelor of Science in Data Science *San Diego, CA*

Coursework
Data Structures and Algorithms, Machine Learning, Artificial Intelligence, Recommender Sys, Web Mining Discrete Mathematics, Probability Theory, Statistical Methods, Linear Algebra, Computer Security, Computer Vision, Probabilistic Modeling, Scalable Analytics, Discrete/Continuous Optimization

Technical Skills

Languages: Python, Java, C/C++, SQL (PostgreSQL), R, JavaScript/TypeScript, HTML/CSS, ROS2, Linux
Libraries/Frameworks: PyTorch, TensorFlow, Keras, Scikit-learn, XGBoost, pandas, NumPy, matplotlib, Seaborn, Statsmodels, PySpark, Hugging Face Transformers, D3.js, Three.js, Svelte, React, SwiftUI
Tools/Platforms: AWS (Lambda, EC2), Docker, Git/GitHub, Apache Spark, Apache Kafka, Airflow, Snowflake, BigQuery, Databricks, Power BI, Excel, Google Analytics, Tableau, MongoDB

Experience

Halicioğlu Data Science Institute - Autonomous Vehicle Development September 2024 – June 2025
Data Research Assistant *San Diego, CA*
- Optimized gradient descent–based steering algorithms to improve cornering speed around figure-8 track by maintaining Docker environments for GPS and IMU integration across scaled car prototypes (1/10, 1/5, full-size).
- Won 1st place at Purdue University's premier collegiate full-size go kart race by achieving 30 mph top speeds with autonomous emergency braking in various weather conditions.

Scripps Institution of Oceanography September 2022 – September 2024
Data Research Assistant *San Diego, CA*
- Developed Python pipelines to analyze 70+ years of climate data from 60 coastal airports, including sliding-window PCA, polynomial and ridge regression to model correlations between low cloud cover and temperature trends.
- Worked with academic climate scientists to update published paper; Results linked urbanization to reduced cloud thickness and higher local temperatures.

Deloitte March 2023 – June 2023
Data Science Intern *San Diego, CA*
- Determined traits that lead to drug abuse in young adults by analyzing data provided from the United States Department of Health and Human Services by using XGBoost, ridge, and linear regression models.
- Demonstrated technical consulting skills by presenting findings to senior Deloitte management with intuitive visual graphics using Seaborn and plotly.

Projects

"Organ" Trail Personalized Predictive Health Platform April 2025 – June 2025
- Developed scrollable experience to effectively display unique types of surgeries based on hospital database. Built website using D3.js and html to facilitate smooth user interaction with personalized histograms and ridgeline plots

Recurrent Neural Network Research Paper September 2024 – January 2025
- Engineered custom character-level Recurrent Neural Network Tensorflow to perform word sentiment analysis on Reddit comments from its top 200 communities using different batch size and sequence lengths; Wrote academic paper about how a uniquely genuine and personal tone is reflected in novel generated comments

Seal Health Prediction Model April 2024 – June 2024
- Analyzed environmental and economic datasets to assess human impact on Alaskan seal populations; Performed ridge regression, PCA, and correlation heat map analysis to identify statistically significant factors affecting seal weight, notably human ocean traffic and development

Amazon Purchase Dataset Analysis January 2024 – March 2024
- Utilized AWS Lambda and Apache Spark to data engineer over 16 million rows of Amazon purchases; Practiced optimized batch calculations of root mean square error, one-hot encoding, PCA, all within AWS API and EC2

San Diego Parking Analysis January 2024 – March 2024
- Developed dynamic D3.js-based website to help San Diego drivers find the best time and place to park; Created intuitive daily frequency histograms and a geospatial parking meter heat map