Gino Angelici

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EDUCATION

University of California, San Diego **Sep 2021 - Jun 2025**
Bachelor of Science, Data Science *San Diego, CA*

TECHNICAL SKILLS

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

EXPERIENCE

Halicioğlu Data Science Institute - Autonomous Vehicle Lab **Sep 2024 - Jun 2025**
Data Research Assistant *San Diego, CA*

- Optimized gradient descent–based steering algorithms to improve cornering speed on a figure-8 track; maintained 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, achieving 30 mph top speeds with autonomous emergency braking across varied weather conditions.

Scripps Institution of Oceanography **Sep 2022 - Sep 2024**
Data Research Assistant *San Diego, CA*

- Built Python pipelines to analyze 70+ years of climate data from 60 coastal airports, applying sliding-window PCA, polynomial regression, and ridge regression to model correlations between low cloud cover and temperature trends.
- Collaborated with climate scientists to update a published paper; findings linked urbanization to reduced cloud thickness and elevated local temperatures.

Deloitte **Mar 2023 - Jun 2023**
Data Science Intern *San Diego, CA*

- Analyzed U.S. Department of Health and Human Services data using XGBoost, ridge regression, and linear regression to identify behavioral traits predictive of substance abuse in young adults.
- Presented findings and actionable insights to senior Deloitte management using Seaborn and Plotly visualizations, demonstrating strong technical consulting and communication skills.

PROJECTS

Organ Trail - Personalized Predictive Health Platform **Apr 2025 - Jun 2025**

- Built an interactive scrollable data experience using D3.js and HTML to surface personalized surgery statistics from a hospital database, featuring dynamic histograms and ridgeline plots.

Character-Level RNN for Reddit Sentiment Analysis **Sep 2024 - Jan 2025**

- Engineered a custom character-level RNN in TensorFlow for sentiment analysis on Reddit comments from the top 200 subreddits; experimented with batch size and sequence length hyperparameters and authored an academic paper on tone in model-generated text.

Seal Health Prediction Model **Apr 2024 - Jun 2024**

- Analyzed environmental and economic datasets to assess human impact on Alaskan seal populations using ridge regression, PCA, and correlation heatmaps; identified ocean traffic and coastal development as statistically significant predictors of seal weight.

Amazon Purchase Dataset Analysis **Jan 2024 - Mar 2024**

- Processed 16M+ rows of Amazon transaction data using AWS Lambda, Apache Spark, and EC2; implemented optimized batch computations of RMSE, one-hot encoding, and PCA within the AWS ecosystem.

San Diego Parking Analysis **Jan 2024 - Mar 2024**

- Designed a dynamic D3.js web app to help San Diego drivers identify optimal parking times and locations via daily frequency histograms and an interactive geospatial parking meter heatmap.