

Gregory Quach

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EDUCATION

University of California San Diego
B.S. in Data Science Minor in Cognitive Science (GPA: 3.77/4.0)

La Jolla, CA
Sep 2021 – Mar 2025

WORK EXPERIENCE

Machine Learning Engineer Mentee

San Diego, CA

San Diego Gas & Electric

Sept 2024 – Mar 2025

- * Presented the working prototype to SDG&E stakeholders, influencing internal discussions around AI integration and paving the way for future adoption into the company's asset management workflows.
- * Developed a computer vision model to automatically detect obstructions on powerlines, reducing human error in critical infrastructure monitoring.
- * Working in a team with SDG&E and UCSD's DSC Capstone members, I served as the lead contributor to align AI solutions with real-world utility needs.

Data Analyst and Consultant

remote

One Community Global

July 2023 – Oct 2023

- * Worked with a team to create open-source materials to help foster a more eco-friendly community and promote sustainable initiatives.
- * Conducted thorough analyses of data to aggregate and formulate informed business decisions using various visualizations.

RESEARCH EXPERIENCE

Scripps Institute of Oceanography

La Jolla, CA

Undergraduate Research Assistant

Oct 2024 – Apr 2025

- * Contributed data-driven visualizations that support international environmental policy discussions, including efforts to inform and influence sustainability frameworks at the **United Nations**.
- * Create the first spatially explicit map with ArcGIS to show how natural resources are valued, promoting a balanced view that includes both extractive and non-extractive contributions to national development.

Salk Institute

La Jolla, CA

Undergraduate Research Assistant

July 2024 – Mar 2025

- * Working as a team, I created open-source materials in SLEAP and SLEAP-NN to allow for widely available animal pose estimation resources.
- * Aided in the conversion from Tensorflow to Pytorch of the repository SLEAP-NN for faster and more flexible use on all operating systems.

CERTIFICATIONS

Hugging Face

AI Agents

- * Built custom AI agents using modern frameworks and tools.
- * LlamaIndex, LangGraph, and smolagents

Google

Data Analytics

- * Applied data preparation, analysis, and visualization techniques for decision-making.
- * Spreadsheets, SQL, Tableau, and R.

PROJECTS

Wavewatch

AI, fullstack

- * A fullstack web application that provides surf conditions for any beach and using AI to analyze the goodness of the given conditions.
- * Features include entering any surf beach name, pulling live oceanic data from national databases, and AI analyses of conditions with an intuitive interface.

League of Legends Classifier

Machine Learning

- * Developed an ML model to predict players' positions based on post-game data.
- * Utilized column transformers, pipeline, grid searcher, decision tree classifier.
- * Achieved 95% classification accuracy, surpassing 52.1% baseline.

Surfboard Notifier

LLM, script

- * Automated surfboard monitoring system that searches Craigslist for surfboard listings and sends email notifications when matching criteria are found.
- * Use AI to further categorize listings into more comprehensive groups so only relevant posts are notifying you.