

# Gina Roberg

619-877-4673 | [ginaroberg@gmail.com](mailto:ginaroberg@gmail.com) | [linkedin.com/in/gina-roberg/](https://www.linkedin.com/in/gina-roberg/) | [github.com/Ginaroberg](https://github.com/Ginaroberg)

## Education

### University of California, San Diego

September 2021 - March 2025

*B.S. in Data Science, specialization in AI and Machine Learning*

*San Diego, CA*

**Relevant Coursework:** Data Visualization, Object Oriented Programming, Data Structures and Algorithms, Statistical Methods, Probabilistic Modeling and ML, Recommender Systems, Systems for Scalable Analytics

## Experience

### JP Morgan Chase | Palo Alto, CA

August 2025 - Present

#### Data Scientist

- Created functional prototypes for integrating LLM-based agents and predictive models into an enterprise production application serving 40M+ clients
- Architected a consolidated API layer to aggregate metrics computation across complex, multi-source data pipelines
- Led end-to-end development of an automated email distribution pipeline, across product, design, and engineering
- Engineered features from large-scale financial datasets using SQL and Python to power ML models, surfacing patterns that informed business decisions and drove 13K+ monthly views

### JP Morgan Chase | Palo Alto, CA

June 2024 - August 2024

#### AI and Machine Learning Engineer Intern

- Built a hierarchical agent framework that collects, validates, and integrates data into the company database
- Leveraged NLP techniques (keyword search, name entity recognition, sentiment analysis), OpenAI and Wikipedia APIs to build compliant web scraping agents for data collection in the framework
- Increased internal coverage in company database by over 50% with over 4 million new data points
- Conducted exploratory data analysis (EDA) on user data from internal tools to project future usage patterns, enabling data driven decisions on upcoming projects

### Halicioğlu Data Science Institute | San Diego, CA

April 2023 - March 2024

#### Data Science Tutor

- Created and graded weekly programming assignments, exams, and resources covering data science, statistics, probability, hypothesis testing, and permutation testing
- Taught and explained data science concepts in weekly office hours and discussion sessions to students

### Keywords Studios and AdeptAI | San Diego, CA

October 2023 - January 2024

#### Artificial Intelligence Research Intern

- Conducted training and quality assurance testing on AI Agents, validating integration and user acceptance cases
- Created test cases that apply the AI Agent capabilities on a variety of digital platforms and online services, and collected data to analyze their performance

## Projects

### Recipes and Ratings Analysis and Modeling | Personal Project

- Analyzed a dataset of recipes and ratings by cleaning the data, performing univariate and bivariate EDA
- Built a regression model to predict recipe ratings using feature extraction and sklearn pipelines
- Utilized GridSearchCV to improve the model, achieving 73% precision score

### Urban Sound Audio Classification | Project Lead

- Led team to build an audio classification machine learning model using Urban Sound dataset of 8000+ audio samples
- Used Mel-frequency cepstral coefficients from Librosa library to extract features from audio samples
- Performed 10-fold cross validation on a sequential model with TensorFlow that achieved 80% accuracy

## Skills

**Programming:** Python, SQL, Java, JavaScript, HTML, CSS

**ML/AI:** PyTorch, TensorFlow, Scikit-learn, LangChain, OpenAI, NLP (NER, Sentiment Analysis, Keyword Extraction), Recommender Systems, Probabilistic Modeling

**Libraries/Frameworks:** JUnit, Numpy, Matplotlib, Pandas, React.js, Node.js, D3.js

**Technologies:** Jupyter Notebook, GitHub, SQL, SQLite, Azure-CLI, Microsoft Office, Canva, Databricks, Snowflake