

Aditya Iyer

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EDUCATION

University of California, San Diego

Sep 2025 – Dec 2026

M.S., Data Science

San Diego, CA

- **Relevant Courses:** Recommender Systems & Web Mining, Numerical Linear Algebra, High Dimensional Probability & Statistics

University of California, Santa Barbara

Sep 2022 – Jun 2025

B.S., Data Science & Statistics

Santa Barbara, CA

- **Relevant Courses:** Statistical Machine Learning, Stochastic Processes, Regression Analysis, Nonparametric Modeling, Big Data Analytics, Survival Analysis

EXPERIENCE

Analyst, Financial Planning & Analysis

Mar 2025 – Sep 2025

Allegiant Travel Co.

Remote/Las Vegas, NV

- Developed financial models for flight hours, headcount, and crew pay to support budgeting and planning
- Automated forecast workflows linking SQL + Python with Excel & made Streamlit dashboard for executives
- Applied PCA & Gaussian Mixture Models to identify largest cost drivers across flight attendant bases
- Improved forecast accuracy from 25% to within 1% monthly, driving over \$5M+ in annual cost savings

Research Assistant

Jun 2024 – Aug 2024

UC Irvine, ISI-BUDS (SIBS)

Irvine, CA

- Analyzed survey data to assess impact of internal displacement on depression in Ukrainian men
- Applied mixed-effects regression models and multiple imputation in R to study displacement effect sizes
- Incorporated social network analysis to address sampling biases; presenting findings at USPROC competition

Backend Developer Intern

Aug 2023 – Jun 2024

FirstHive

Remote/Cupertino, CA

- Reduced query load time by optimizing database-website functionality using Django and MySQL
- Redesigned UI/UX across web pages, simplifying navigation and improving user engagement
- Developed predictive algorithms to analyze user churn and retention rates, delivering insights for business strategy

Finance & Business Intelligence Intern

Jun 2021 – Jul 2023

Ecosense Lighting

Los Angeles, CA

- Conducted financial data analysis and sales forecasting using SQL and Sisense
- Supported NetSuite and HubSpot integration for data management and customer operations
- Created financial reports to track inventory, transactions, and product lifecycle inefficiencies

PROJECTS

Hallucination-Resistant RAG System | *LangChain, ChromaDB, HuggingFace, Streamlit*

Sep 2025 – Ongoing

- Designing a RAG system to answer questions from uploaded documents and reduce LLM hallucinations
- Implementing retrieval scoring and fine-tuning using LoRA or QLoRA on domain-specific Q&A pairs
- Building a Streamlit UI for document upload, question input, source inspection, and factual grounding analysis

ChanceCalc Stochastic Calculator | *OpenAI API, Supabase, Selenium, LangChain*

Dec 2024 – Jun 2025

- Built Python framework automating stochastic data generation from user-defined topics through LLM reasoning
- Leveraged OpenAI API and web-scraping to source data, extract variables, and store structured data in Supabase
- Applied pyMetalog to model probabilistic distributions and generate JSON-based Stochastic Information Packets

News Headline Sarcasm Detection | *Python, PyTorch, NLTK, GloVe, LSTM*

Jan 2025 – Apr 2025

- Built a Bi-LSTM using GloVe embeddings to classify headline sarcasm with 98.6% accuracy
- Developed a custom NLP pipeline with tokenization, bigrams, sentiment scoring, and padded index-word sequences

TECHNICAL SKILLS

Programming: Python, SQL, R, Java, JavaScript, SAS, HTML/CSS

Frameworks & Libraries: OpenAI API, LangChain, PyTorch, TensorFlow, Scikit-learn, NumPy, Django, Tidyverse

Tools: Spark, Databricks, GCP, PowerBI, MySQL, Supabase, Sisense, HubSpot, NetSuite, Microsoft Office