

Aditya Iyer

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EDUCATION

University of California, San Diego <i>M.S., Data Science</i>	Sep 2025 – Dec 2026 <i>San Diego, CA</i>
• Relevant Courses: Recommender Systems & Web Mining, Numerical Linear Algebra, High Dimensional Probability & Statistics	
University of California, Santa Barbara <i>B.S., Data Science & Statistics</i>	Sep 2022 – Jun 2025 <i>Santa Barbara, CA</i>
• Relevant Courses: Statistical Machine Learning, Stochastic Processes, Regression Analysis, Nonparametric Modeling, Big Data Analytics, Survival Analysis	

EXPERIENCE

Analyst, Financial Planning & Analysis <i>Allegiant Travel Co.</i>	Mar 2025 – Sep 2025 <i>Remote/Las Vegas, NV</i>
• 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 <i>UC Irvine, ISI-BUDS (SIBS)</i>	Jun 2024 – Aug 2024 <i>Irvine, CA</i>
• 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 <i>FirstHive</i>	Aug 2023 – Jun 2024 <i>Remote/Cupertino, CA</i>
• 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 <i>Ecosense Lighting</i>	Jun 2021 – Jul 2023 <i>Los Angeles, CA</i>
• 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 <i>LangChain, ChromaDB, HuggingFace, Streamlit</i>	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 <i>OpenAI API, Supabase, Selenium, LangChain</i>	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 <i>Python, PyTorch, NLTK, GloVe, LSTM</i>	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