

ARNAV GARG

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EDUCATION

UCLA Anderson School of Management

M.S. Business Analytics [STEM + OPT] | *UCLA Merit Scholarship* | *CGPA: 3.90/4.00*

Los Angeles, CA

Sep 2023 – Dec 2024 (Expected)

Delhi Technological University

Bachelor of Technology in Computer Science & Engineering | *CGPA: 8.02/10.00*

Delhi, India

Aug 2018 – Aug 2022

TECHNICAL SKILLS

Programming Languages: Python (NumPy, Pandas, Matplotlib, Scikit-learn, Seaborn, Gurobi, NLTK, GIS), R, SQL, Bash, C/C++

Analysis Tools: Jupyter, VSCode, MySQL, Tableau, Snowflake, Google Cloud Platform, Power BI, Amazon Web Services, GitHub

Soft Skills: Communication, Presentation, Stakeholder Management, Leadership, Initiative, Time Management, Problem-Solving

Certifications: Security Fundamentals (Microsoft), Algorithms on Graphs (UCSD), Strategy Consulting Virtual Experience Program (BCG), Business Analysis & Project Management, Data Foundations (Google)

PROFESSIONAL EXPERIENCE

Walmart Global Tech | *Global Multi-Channel Retailer*

Sunnyvale, CA

Data Science Intern

Sep 2024 – Present

- Recommended an optimal traffic split based on data-backed insights, improving Walmart's ability to respond to seasonal marketing demands and reducing potential revenue loss during peak shopping periods.
- Developed and implemented a dynamic traffic allocation system for Walmart's holiday homepage using Multi-Armed Bandit algorithms (Epsilon Greedy, Thompson Sampling) to optimize customer engagement and minimize time-to-decision under high-traffic conditions.
- Analyzed the performance of three distinct marketing strategies in a 4th of July eCommerce experiment, using click-through rate data from user interactions across multiple website variations.
- Leveraged Thompson Sampling with Beta Distribution to prioritize traffic allocation toward the most promising marketing strategy in real-time, optimizing website performance without requiring traditional A/B testing.

CardinalTalent.AI | *Recruiting Software Suite*

San Francisco, CA

AI Product Engineer Intern

June 2024 – Sep 2024

- Led the development of the AI Interviewer vertical, an automated intelligent system designed to screen job candidates based on role-specific requirements and streamline the hiring process.
- Applied prompt engineering techniques using Langchain and Retrieval Augmented Generation to ensure fluent conversations and generate high-quality interview questions while minimizing hallucinations.
- Implemented a machine learning computer vision model to track facial expressions and eye movements, flagging interviews with potential signs of deception for further review.
- Developed a robust scoring algorithm by collecting and analyzing metadata such as response time, answer quality, and sound frequency to provide a comprehensive interview summary and identify top candidates.

RateGain Travel Technologies | *B2B SaaS for Travel & Hospitality*

Noida, India

Data Analyst

Jul 2022 – Aug 2023

- Enabled 20% revenue growth for major airlines by implementing time series machine learning models using Linear Regression, SARIMAX, and LSTM algorithms.
- Developed an NLP model to assign commercial value to hotel room features across 12 categories, including room cost, occupancy, and amenities, enhancing data-driven decision-making.
- Improved data pipeline efficiency by 500%, automating end-to-end data delivery to Google Cloud Storage using REST APIs.
- Created intuitive dashboards and visualizations of complex technical data for business stakeholders using Tableau and Excel, ensuring clear communication of insights and strategies.

ACADEMIC PROJECTS

NYC Motor Vehicle Crashes | Full-Stack Data Engineering & Visualization | *AWS, Snowflake, Tableau, GIS, Hugging Face*

- Designed and implemented an end-to-end data pipeline, fetching, processing, and loading crash data into AWS S3, transforming it in Snowflake, and modeling the data using a STAR schema for optimized visualization.
- Recovered 30% of previously unusable data by leveraging Google Maps API to geo-tag addresses and used OpenAI API to categorize 1,600 vehicle models into 8 distinct vehicle types.
- Developed Tableau dashboards to visualize key metrics, uncover crash patterns, and provide actionable recommendations to reduce crash probabilities and distilled complex results into simple, clear visualizations.