# Armaan Dhanda

# Los Angeles CA | 📞 (310)-208-9762 ­|armaan.dhanda.2024@anderson.ucla.edu | 🔗[LinkedIn](https://www.linkedin.com/in/armaan-dhanda-ucla/) | 🔗[GitHub](https://github.com/armaandhanda) |

**TECHNICAL SKILLS**

**Programming Language:** R, Python (TensorFlow,Pandas, Gurobi, Pytorch, Sklearn), C/C++, SQL, NoSQL, JavaScript (React.js), Java

**Tools:** Git, GitHub, Kafka, Jira, Tableau, Excel, Splunk, PowerBI, Docker, Snowflake, AWS (EC2), Jenkins, Agile, Anova

**ML Model:** Clustering, Decision Tree, Random Forest, Deep Learning (CNN/RNN), PCA, NLP/LLM, A/B Testing, ARIMA, Bayesian

Bottom of Form**EDUCATION**

##### UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA) Los Angeles, CA

*Master of Science, Business Analytics- Data Science/Machine Learning*Dec 2024

**Courses**: Adv Machine Learning, Time Series Analysis, Sports Analytics, Statistics, Optimization, SQL, Data Management, A/B Testing.

##### DELHI TECHNOLOGICAL UNIVERSITY Delhi, India

Bachelor of Technology, Computer Science/Information Technology June 2021

**Courses:** Data Structures & Algorithms, Big Data Analytics, Database Management, Operating System, Computer Networks

**PROFESSIONAL EXPERIENCE**

**WALT DISNEY** Los Angeles, CA

***Data Scientist Coop*** Sep 2024- Dec 2024

* **Engineered** & deployed **ML models** to analyze and *identify patterns in interchange fees, payment failures & chargebacks* prediction model enabling strategies for customer retention, reducing costs by **10%**
* Designed ***interactive executive dashboard*** *in Tableau*; also designed a strategy to maximize the revenue.

##### MONSTER ENERGY Los Angeles, CA

***Data Scientist/ Intern*** June 2024 – Sep 2024

* Automated audit processes and reporting using **Excel ,Power BI and SQL** enhancing data consistency and reducing manual labor by 10 hours monthly. Developed a **Python and SQL-based monitoring system** for real-time database oversight, ensuring information integrity and reducing execution time by 90%

##### American Express (AMEX) Gurgaon, India

***Data Engineer 2*** Feb 2023 - Aug 2023

* Completed security compliance measures for 115 API, cataloguing and executing a comprehensive suite of automated tests across all APIs to ensure adherence to security protocols and health management standards
* Created a **Python** Script that efficiently flattened JSON data and seamlessly integrated it with the current table structure, optimizing data processing and visualization within the database
* Led a team of 4 interns. Designed the project roadmap and provided training in React, data pipelines, and real-time ingestion techniques. Facilitated weekly code reviews, mentoring best practices in coding and documentation

**Data Engineer 3** Aug 2021 - Feb 2023

* Developed a **React-based UI** for SCRA with a **dynamic questionnaire**, collecting user responses in real-time and adapting workflows to reduce fraudulent activity.
* Built a **Kafka-based data pipeline** for **real-time data ingestion**, enabling secure and efficient transmission to the centralized InAmex SQL database for audit and compliance purposes.
* Designed an ETL process to preprocess questionnaire data and store it in a structured, analytics-ready format, supporting fraud detection and compliance reporting. Leveraged SQL to transform raw data into actionable insights, enabling audit dashboards that optimized compliance processes by 30%.

**Data Intern** June 2020 - July 2020

* Engineered a code crawler using **D3.js** and **web scraping** to create graphical representations of GitHub project directories**,** reducing the onboarding time for new team members by 40%.

**ANALYTICS/RESEARCH PROJECT**

**Emotion-Aware Transformer Encoder for Empathetic Dialogue Generation**[(*Link*)**:**](https://github.com/armaandhanda/Emotion-Aware-Transformer-Encoder-for-Empathetic-Dialogue-Generation)Enhanced dialogue empathy with an emotional classifier and Transformer XL model, achieving 95% accuracy and aBLEU score of 0.225.

**Weather Prediction (Forecasting Weather Across Cities)** *(*[*Link*](https://github.com/armaandhanda/PredictTemprature)*):* Built a **LSTM model** with batch normalization and dropout layers to predict temperature and weather trends across cities, achieving accuracy 91%

**Sales Prediction***(*[*Link*](https://github.com/armaandhanda/Economic-and-Financial-Forecasting)*):* This time series forecasting project focuses on predicting future sales across three product categories: **Furniture**, **Technology**, and **Office Supplies** using three different models: **SARIMA**, **Prophet**, and **LSTM**.

**Super Bowl Analytics***(*[*Link*](https://github.com/armaandhanda/Super-Bowl-Analytics)*):* This project explores impact of Super Bowl ads on beer sales. The analysis combines **web scraping**, **data cleaning**, **visualization**, and **regression modeling** to estimate the return on investment (ROI) of Super Bowl commercials.

**MoneyBall** *(*[*Link*](https://github.com/armaandhanda/Super-Bowl-Analytics)*):* This project explores the predictive analytics behind baseball player performance .Developed predictive models for baseball player performance, leveraging Linear Regression, **Random Forest**, and **XGBoost** to optimize team decision-making .

**NYC Motor Vehicle Collision Analytics**: Cleaned NYC collision data, implemented dimensional modeling in Snowflake, and developed KPI dashboards in Tableau. . Skill: Matplotlib, ggplot, data visualization, Pytorch, Apache Airflow, Redshift, BigQuery, Airflow, Terraform, ETL/ELT data pipelines, Apache Spark, Databricks, Multivariate Analysis, Bayesian Methods, Generalized Linear Models, Non-Linear Models, Decision Trees, Non- Parametric estimation, critical thinking, out of box thinking, Machine learning techniques, advanced process control, modelling, optimization, estimation & data analysis techniques, A/B Testing Statistical methods,s3, RDS, EC2, embedded software, TABLEAU/Power Query, VLOOKUP, Excel, low level design,AWS Lambda, AI/ML, NLP, business intelligence, market research, industry research, CI CD pipeline, Typescript, Robotics, Curiosity, Quantitively, quantitatively and qualitative Excel advanced, pandas, creating and maintaining data pipeline, visual analytical presentations, airflow, data visualizations, analysis of big data, Tableau dashboards, Design & Analytical Skills: Test Execution and Results, Data mining, data analyst, Redshift, Postgres, AWS environment, MSSQL, front-end, backend, curate, Natural Language processing, mentorship, multiple sources and cleanse, enhance and analyze the data. predictive Modeling, and creating Test Plans, Root Cause Analysis for 2G-5G, Creative Conflict, Competitiveness, Commitment, Collaboration, ambitious, work ethic, creativity, PowerPoint, excel, word, outlook, research skill, troubleshooting, operating system, LINUX, UNIX, Computer Architecture, HTML, CSS, JS, analytical approach, Distributions, Predictive modeling, Data validation, Hypothesis testing, Business problem understanding, Technical problem translation, Communication of results, Stakeholder presentation, Problem-solving ability, Python programming, Machine learning, Advanced analytical methods, Team communication skills, Writing skills Data-driven mindset, conduct market research, data analysis tools and methodology, Business model, competitive analysis, gaming, product manager, Implementation, Architecting, Mathematic, Management, Product Management, Computer Vision, Algorithms, Algorithm, Data Science Engineer, SQL Server, SSIS, PHP, VBA, C#, Monte Carlo simulations, linear algebra, econometric, intellectual curiosity, creativity, REST APIs., Cloud Platform, Docker, Kubernetes, JSP,XML, Oracle, Product Analytics, mathematical software, Information Science, Scala, C#, Business insights, Fast paced, self-driven, collaborative, Decision making, Software engineering, Data warehouse, user satisfaction, data modeling, Data Engineering, Data Analytics, Data Quality, Python, iOS, Android, HTML5/CSS3, Angular, BackBone.js, Dojo, Node JS, Spring MVC, Rest Easy, Ruby on Rails, MongoDB, Cassandra, EC2, ELB, Route53, Hadoop, Pig, Selenium, Testing, Intern, Karma data life cycle, Unit Testing, data visualization mathematics Computational biology, Pandas, Data Science, Data Analysis, work Cross-functional, Maven, data-driven, advanced analytics, communication skill, Fintech, Banking, SAS, Bayesian, K-means, ETL, optimization, OOPs, Analytical, problem solving, Data Scientist, Machine Learning, Linear Regression, Naive Bayes, NLP, Computer Vision, Logistics Regression, mathematical modelling, gourbi, Optimization, PU Classification, Clustering, CNN, Random Forests, XGBoost, PCA, SVM, Natural Language Processing, Large Language Models, Hypothesis Testing, Deep Learning, A/B Testing, problem solving, tech savvy, Data Management, Business Analyst, Reporting, software developer, Marketing, Business Intelligence, Product Management, Data Structures, probability, Renewable Energy, Power Projects or Sustainability, drive revenue, data driven approach.