

# HARD PARIKH

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## EDUCATION

**University of California, Riverside** (September 2023 – December 2024)

Master of Science, Computer Science, **CGPA: - 3.82/4.0**

Course Work: Data Structures Algorithm, Big Data, Statistics, Deep Learning, NLP, Data Science, Computer Vision, DBMS

**Dayananda Sagar College of Engineering**, Bangalore (July 2018-June 2022)

Bachelor of Science, Computer Science, **CGPA: - 3.8/4.0**

Course Work: Data Structures, Algorithm Design, Data Science, Big Data Analytics, Machine Learning, Data Mining, SQL

## TECHNICAL SKILLS

**Programming:** Python, C, SQL, R, Scala, Java, C++, MATLAB

**Cloud Computing Platforms and Services:**

- **AWS:** S3, Athena, Glue, Sage Maker, Aurora, Lambda
- **Azure:** Synapse Analytics, Databricks, Power BI
- **GCP:** Big Query, Dataflow, Looker
- **Others:** Snowflake, Docker, Postgres, Hadoop, MapReduce, Data Build Tool (DBT), Tableau, PowerBI, Spark, Excel

**Machine Learning:** Generative Adversarial Networks, Transformers, OpenCV, PyTorch, TensorFlow, GEN AI, LLM

**Soft skills:** Strong analytical thinking, effective communication, detail-oriented, adaptable, proficient in time management, leadership qualities, resilient, and ethical in handling sensitive data.

## WORK EXPERIENCE

**Data Operations and Analytics Intern at E15 Group, Compass Group** (On-site) - May 2024 – present

- Optimized data workflows for the Restaurant Associates sector using Snowflake, SQL, and Python.
- Improved data quality through cleaning, transformation, standardization, and resolving inconsistencies.
- Enhanced data visualization and decision-making using Tableau.
- Currently, working on migrating the team from using DBT CLI to DBT Cloud to reduce dependencies and to eliminate the use of Airflow for orchestration.

**Data Science/ Machine Learning Intern at RadicalX** (Remote) - November 2023 – February 2024

- Developed an AI-based tool for data analyst interview preparation by leveraging AWS to manage large datasets.
- Implementing NLP techniques for question analysis, utilizing SQL for data extraction and transformation
- Used Machine learning algorithms to generate realistic interview scenarios, resulting in a 25% increase in tool effectiveness.

**Software Developer Engineer at Amadeus Labs** (On-site) - March 2022-March 2023

- Developed a data processing pipeline to analyze and optimize booking data, improving the processing time.
- Handled large-scale data transformations and aggregations, enhancing system performance.
- Conducted complex data queries and optimizations, resulting in a 30% improvement in query execution times.
- Collaborated with cross-functional teams to integrate big data solutions into the Central Reservation System for IHG and MGM.

## PERSONAL PROJECTS

**TikTok Insight Analyzer: Claim and Opinion Classification and Analysis** ([Link](#))

Developed a machine learning model to distinguish between claims and opinions within TikTok videos and comments, following the PACE framework (Plan, Analyze, Construct, Execute). Using Python, Statsmodels, Scipy, Scikit-learn, and Tableau, gathered data, performed data scrubbing and exploratory data analysis (EDA), and identified key insights. Conducted statistical and regression analyses, developing a logistic regression model to predict account verification status and its correlation with posting opinions.

**Robust Supply Chain Network Design Using Monte Carlo Simulation** ([Link](#))

A robust supply chain network design methodology using Monte Carlo simulation to account for fluctuating demand. This project involved simulating 50 demand scenarios across five international markets to optimize the allocation of factories and distribution centers, minimizing total production and shipment costs. Utilized Python to implement normal distribution models for demand variability and linear programming for optimization, enhancing resilience against seasonality and demand fluctuations.

**Data Engineering and Analytics Project for Reddit** ([Link](#))

Engineered an end-to-end data pipeline for analyzing Reddit's top 100 posts across various topics, using Airflow, Docker, AWS (S3, Glue, Lambda, Athena, Redshift). Enhanced data insights with SQL and Qlik Sense for Data Visualization.

**Analysis of Aadhar data using Qlik Sense** ([Link](#))

Conducted analysis of Aadhar data using Qlik Sense, uncovering trends and patterns to inform policy-making and improve service delivery. Integrated and pre-processed large datasets created interactive dashboards, and visualized insights on demographic distribution, social welfare impact, and financial inclusion.

## ACHIEVEMENTS

**Publication in ICTIS conference** ([Google Scholar](#))

Developed model to predict, categorise car in frame with OpenCV, Darknet, YOLO. Published in International Conference on Information and Communication Technology by Springer.

**Best Internship Project at Amadeus** ([2022](#))

Part of the internship team at Amadeus which won the award for the best internship project at Amadeus for the year 2022.