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, Dataproc, Looker
- **Others:** Snowflake, Docker, Postgres, Hadoop, MapReduce, Hive, Kafka, Tableau, PowerBI, Spark, Excel, Power Query

Machine Learning: Generative Adversarial Networks, Transformers, OpenCV, PyTorch, TensorFlow, Kubeflow, 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, Software Design and Architecture.

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.

Data Science Intern at RadicalX (Remote) - November 2023 – Feburary 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 using Hadoop to analyze and optimize booking data, reducing processing time by 40%.
- Implemented MapReduce algorithms to handle large-scale data transformations and aggregations, enhancing system performance.
- Conducted complex data queries and optimizations in Hive, 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 Tableau.

Inventory Optimization Analysis (Link)
Applied Hadoop to analyze and forecast sales trends, achieving a 25% reduction in excess inventory and a 15% improvement in stock replenishments at key locations.

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.