Karan Gupta

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EDUCATION

Texas A&M University, Mays Business School — **College Station, Texas**
Master of Science in Management Information Systems | GPA: 4.0/4.0 — **May 2021**
College of Engineering Pune — **Pune, India**
Bachelor of Technology in Electronics and Telecommunication| GPA: 3.05/4.0 — **May 2016**

EXPERIENCE

HDFC Bank Ltd., **Mumbai, Maharashtra | *Data Analyst*** — **July 2016 – June 2019**

- Designed optimized queries and procedures in MSSQL to improve the response time of digital loan webforms by 30%; elevated customer satisfaction index of loans to 97%
- Successfully interpreted key metrics for deriving transactional summary from digital loan data that contributed to raising the digital loan business of the bank by 90%
- Architected ETL pipelines to integrate transactional data coming from varied data sources using Python scripts
- Developed real-time Tableau dashboards for improved visibility and analysis of daily support ticket data
- Performed EDA on IIS web traffic log of the primary website of the bank using Pandas; provided insights which helped in reducing technical declines by 80%

Tata Consultancy Services, **Pune, Maharashtra | *Summer Analyst*** — **May 2015 – July 2015**

- Developed procedures that aggregated data received from multiple sensors for an autonomous car project
- Developed MATLAB code for fusing sensor data

PROJECTS

Dominick's Fine Foods – Data Warehousing -

- Developed a Data Warehouse for a large enterprise dataset using Kimball's design of Conformed Data Marts
- Designed a dimensional STAR model for the data and utilized SSIS, SSAS and SSRS for ETL, analysis and visualization

COVID-19 Real-time interactive dashboard –

- Designed a real-time dashboard in Tableau Public, utilizing the dataset provided by John Hopkins Univ.
- Developed a pipeline in Python to scrape the data from JHU's GitHub, transform the data & load the transformed data into Sheets using Google API; automated pipeline execution using Apache Airflow

Quantifying sentimentality of songs by an artist -

- Scraped data for each track by my favorite artists from Spotify and Genius
- Computed a sadness index for each track by averaging the musical positivity score, fetched using the spotipy library, with the computed sadness sentiment score for lyrics
- Reported the results in an interactive Tableau Dashboard

Movie Recommendation System –

- Designed a movie recommender system using Content-based filtering and Collaborative filtering approach
- Combined recommendations generated using metadata soup of movie cast, director(s), genre(s) and keywords with recommendations generated using plot description for a more holistic content-based recommender

Prediction of Speed of Spread of COVID-19 –

- Developed predictive models to predict the rate of spread of COVID-19 using community mobility data from Google
- Weighed Regression based (Linear, Ridge, Lasso) and Tree-based approaches (bagging, boosting) to choose the best model that provided lowest test MSE and interpretability of features that are pivotal in affecting the rate of spread of the virus

Flight Guru –

- Developed a web app for suggesting flights and destinations to users, through analysis of 8 years flight records
- Created, configured and managed a cluster of 3 MariaDB databases on an AWS EC2 instance
- Migrated data from relational to a document database (MongoDB); reduced query execution time by 20%

TECHNICAL SKILLS & CERTIFICATIONS

Certifications: Machine Learning (IBM), KPMG Data Analytics Consulting Virtual Internship, Tableau Data Scientist
Languages: Python, R, Spark (w/PySpark), SQL, HQL, HTML5, CSS3, JavaScript (d3), Shell Scripting, Bash Scripting
Tools: SSIS, SSAS & SSRS, Tableau 10.5, Power BI, Advanced Excel (VBA), RStudio, Jupyter notebooks
DB & Frameworks: MSSQL, Oracle 12g, MySQL, PostgreSQL, MariaDB Galera Cluster, Google BigQuery, MongoDB, Hive, Spark, Kafka, AWS Suite (EC2, S3, Amazon RDS, Amazon Kinesis Analytics)