Viraj Shetty

Dallas, TX - 75252 | (469) 388-7873 | virajvshetty47@gmail.com | https://www.linkedin.com/in/virajshetty47/

EDUCATION

THE UNIVERSITY OF TEXAS AT DALLAS

Aug 2021 – May 2023

Master of Science, Information Technology and Management

3.67 GPA

THE UNIVERSITY OF MUMBAI

Jun 2016 – Nov 2020

Bachelor of Engineering, Computer Engineering

3.2 GPA

TECHNICAL SKILLS

- PROGRAMMING: R, SQL, API, JavaScript, Python (Pytorch, TensorFlow, Pandas, Matplotlib, NumPy, Keras, Scikit-Learn)
- B.I TOOLS & DATABASES: SAS, PowerBI, SPSS, WPS, Tableau, Alteryx, Microsoft Excel, MySQL, MongoDB, MS Access, SQLite
- MACHINE LEARNING: Random Forest, KNN, Naïve Bayes, SVM, Decision Tree, Gradient boosting, Dimensionality Reduction
- STATISTICS: Hypothesis Testing, Statistical Analysis, Inferential Statistics, Logistic Regression
- BIG DATA: Hadoop, Sgoop, Spark, Hive, Impala, Flume Kafka, Scala, PySpark
- OTHER: AWS, Linux, Git, Snowflake, Google Big Query, Databricks, JIRA, Visual Studio, Jupyter Notebook, VMWare, Streamlit, Google Colab

WORK EXPERIENCE

LOOPBACK ANALYTICS, DALLAS, TX

Jun 2022 - Dec 2022

Real World Data Analyst Intern

- Performed Ad-Hoc analysis and wrote optimized SQL queries for 100+ GB data to improve data fetching efficiency by 37%.
- Improved data pipeline refresh rate by 25% through maintenance and PowerBI report implementation
- Worked on data clustering of Socio-Economic Data using Census-API on **Databricks & R**, resulting in a significant decrease in null values in column by **19%.**
- Spearheaded assembly of healthcare client feasibility requirements using Snowflake & MS Excel resulting in an increase in efficiency of 15%.
- Collaborated across different functions and communicated KPIs through cross-functional teams to improve efficiency by 10%.

MUNI CAMPUS, MUMBAI, INDIA

Dec 2018 - Feb 2020

Data Analyst Intern

- Built data pipelines to collect, process, and store datasets from multiple sources using Apache Spark & AWS Glue.
- Automated the data wrangling & ingestion process, reducing manual errors and processing time by 60%.
- Conducted root cause analysis for the campus business model and implemented a Python-based YouTube scraper that scraped 10K links and title of a specific search term keyword.
- Performed ETL using pandas to store the data with optimized SQL scripts which increased data access speed by 67%.
- Implemented a recommendation system in the student portal using API, resulting in a 30% increase in student retention.

ACADEMIC PROJECTS

Truck Risk Factor Analysis: Big Data Project

HDFS | TABLEAU | PYSPARK

- Extracted and loaded 100,000 rows of truck fleet data in HDFS and imported this data in Hive Table.
- Formulated a visualization using Tableau which resulted in mitigating the risk factory by 28%.
- Trained a Logistic Regression Model with an accuracy of 83% and utilized Confusion Matrix & ROC curve to determine performance and accuracy of model.

Payroll Management System: Database Project [Code]

MYSQL WORKBENCH | VISIO | SQL

- Gathered employee details to formulate and developed SQL scripts to fetch employee data from databases.
- · Constructed database objects, performing Data Normalization, Joins, Relationships, ERD using MySQL Workbench

Fraud Transaction Detection Well Fargo: Machine Learning Project [Code]

TABLEAU PREP | PYTHON | JUPYTER NOTEBOOK

- Processed 1 million rows of transaction data from Wells Fargo using Prep Builder to extract 300K rows of data.
- Built a robust model using xgboost with RMSE of 0.459 to detect fraud with an accuracy of 93%.

Quora Duplicate Question Identification: Machine Learning Project [Code]

PYTHON | NLP | SKLEARN

- Processed 10,000 rows of similar questions asked in Quora and added contracted words dictionary.
- Developed and implemented a machine learning model using callbacks such as EarlyStopping and ReduceLROnPlateau to improve the training process.
- Improved previous model resulting in better similar question pair detection with an accuracy of 83%.

Real Time Bridge Health Monitoring System: Capstone Project [Code]

PYTHON | PYQT5 | FIREBASE

- Researched 10+ papers to create a framework for a Real Time Bridge Health Management System
- Formulated a web-based application that aggregated multiple data sources which resulted in ease of access by 40%
- Created an automated Bridge Health Monitoring to reduce human intervention by 100% using Audio and Image Processing

HONORS AND CLUBS

• Member of TapTheTech - NGO that advocated equal education featured on Coursera.org [Link]

CERTIFICATIONS

• HIPAA Certification (2022-2023), Google Ads Certification (2022-2023), JIRA Fundamentals