Bhargav Teja Jakku

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SUMMARY

Graduated in May 2023 in Data analytical Engineering with 2+ years of experience in building innovative data intensive applications and solving complex problems. Proficient in designing and developing data pipelines, improving data lifecycle with effective collaboration.

TECHNICAL SKILLS

Programming Languages: Scala, Python, R, Java
Database: T-SQL, SQL Server, PostgreSQL, MongoDB, NoSQL
Cloud Services: AWS (EC2, S3), Azure, GCP, Neo4j
Tools: Git, Docker, Tableau, Kubernetes, Linux

Data Warehouse: Snowflake, Databricks, Big query, Redshift, dbt
Big Data: Hadoop, Apache spark, Hive
ML: Classification, Regression, hypothesis testing, hyper tuning
Packages: Pandas, NumPy, Scikit-learn, PySpark, TensorFlow

PROFESSIONAL EXPERIENCE

Data Engineer - *Clorder Technologies*   India | May 2019 – Jun 2021
Technologies: Python, SQL, Airflow, Big Query, Tableau

- Utilized Big Query export feature in Google Analytics 360 to collect and store raw data in Big Query from the client's website.
- Designed custom **ETL** pipelines with **cloud composer (Airflow)**, ensuring data cleanliness, transformation, and secure storage in **Big Query**
- Developed **20** KPIs tailored to business objectives, integrated KPI queries into data transformation processes for better analytics
- Built **24** interactive **Tableau** dashboards to automate performance metrics reporting on marketing campaign and improved global revenue
- Streamlined data validation with SQL scripts, reducing data inconsistencies by **90%** and saving over **10** hours/week
- Improved query efficiency by indices optimization, resulting in a **25%** reduction in costs while effectively utilizing allocated resources
- Streamlined CI/CD framework and version control for python code using **Git** and managed workloads using CRON jobs
- Collaborated cross-functionally with **product, marketing stakeholders**, revamped business solutions, uplifting in customer services
- Developed on-demand **Ad-hoc** reports for senior leaderships on key outcomes, strengthening scalable, data-driven business strategies.

PROJECTS

Covid-19 Data Integration (Google cloud project)   Apr 2023
Technologies: PostgreSQL, Talend, Snowflake, Big query, GCP

- Defined entities to create **EER's** and relational models to analyze healthcare **EMR** data (1M records) using **PostgreSQL**
- Performed ELT operations using **Talend** and modeled data using **snowflake** schema and OLAP data cubes and load and transform data using GCP buckets and Data Fusion. Hosted data on Cloud SQL, performed federated queries for changing data from Pub/Sub stream.
- Ingested data to **Big Query** using Data stream from local server to maintain data freshness (CDC and SCD's) and connected **Looker** with Tableau for visualization and managed access control using **IAM**

Market Research Analysis   July 2022
Technologies: Python, Tableau

- Demonstrated feature engineering for **17** columns of bike rental data, using **Python** to improve sales by strategic pricing decisions.
- Applied **Time series analysis**, integrated with Tableau to dynamically forecast sales trends, fostering **Agile** market improvement methods.
- Briefed peak operational hours and proposed dynamic market pricing recommendations, yielding in a **35**% boost in upcoming sales year.

Healthcare Analytics on Covid-19   May 2022
Technologies: Python, Exploratory Data Analysis, Deep Learning

- Conducted statistical analysis on 1M records using Python, resulting in early identification of critical patterns in daily cases and mortality.
- Employed **Seaborn** for data visualization on real-time data, revealing vaccination rates and clinical heath assessments trends.
- Deployed a forecasting predictive model using **Recursive Neural Network** to mitigate virus outbreak transmission with **97**% accuracy.

Customer Credit Card Risk and Churn Analysis   Dec 2022
Technologies: R, Statistical Analysis, Machine Learning Model

- Executed a comprehensive risk assessment analysis for credit card portfolio in **R**, finding account closures and new customer acquisitions.
- Implemented Feature extraction methods to evaluate **6** ML algorithms, out of which **QDA** outperformed the rest with **95**% accuracy.
- Projected a detailed ad-hoc report, highlighting strategic insights that led to a successful reacquisition of closed accounts by **40**%.

Education

Master of Science in Data Analytics | George Mason University   May 2023
Course work: Statistics, Probability, Big Data, Database Management, Data Warehouse, Machine Learning, Quantitative analytics, Data mining, A/B Testing & Validation, Graph DB, Relational Database, Predictive Analytics, Deep Learning, Business Intelligence, Data Infrastructure.

Bachelor of Technology in Electronics and Communication Engineering | Keshav Memorial Institute of Technology   April 2020
Course Work: Signals and Processing, VLSI, Computer Networks, Device and Circuits, Micro-processors, and Controllers.

Certificates

- Snowflake Core Certification, Data analysis in R, GCP (In progress)