SUSMITHA ARIKATLA

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PROFESSIONAL SUMMARY

- 3+ Years of experience in designing data-intensive applications using Big Data Analytical, Cloud Data engineering, Data Visualization, Data Warehouse, Reporting, and Data Quality solutions.
- Practical understanding of the Data modeling (Dimensional & Relational) concepts like Star - Schema Modeling, Snowflake Schema Modeling, Fact and Dimension tables.
- Hands-on experience working in various cloud (GCP, AWS and Azure) environments.

EDUCATION

MSc in Data Science | University of Houston | Houston, Texas | GPA: 3.6 *May 2023*

- Awards & Scholarships: Dean's Honors List, Engineering Dean's Master Scholarship, Masters Competitive Scholarship

WORK EXPERIENCE

Data Science – Teaching Assistant | University of Houston | Houston, Texas *Aug 2022- May 2023*

- Highlighted the utilization of various software tools including Excel, Power BI, R, Tableau to demonstrate the implementation of data science techniques and machine learning models.

Data Analyst | Freelance | Remote *Jan 2020 – Apr 2022*

- Applied data visualization techniques for creating Dashboards and reports using SQL and PowerBI to present complex data insights to stakeholders, resulting in improved decision-making and a 20% reduction in time spent on data analysis.
- Collaborated with cross-functional teams to develop and implement machine learning algorithms for maintenance and collect and report kPI metric.
- Integrated advanced statistical techniques and predictive modeling to analyze a large dataset of customer behavior,resulting in a 15% increase in customer retention.

Project Planning & Implementation Engineer | **Tata Communication** *Apr 2016 – May 2017*

- Designed project plans that include project scope, timelines, budget, and resource requirements.
- Coordinated with vendors, contractors, and other stakeholders to ensure that projects are executed according to plan.
- Monitored project progress and adjustments as necessary to keep projects on track.
- Maintained clear and consistent communication with stakeholders throughout the project, including project sponsors and clients.

SKILLS

Data Visualization: Tableau, Looker, Power BI, Qlik Sense, Python (Seaborn, Matplotlib), R
Data Modeling: Star-Schema, Snowflake Schema, Fact and Dimension Tables
Database Management: MySQL, SQL Server, PostgreSQL, Azure ML Studio
Python Libraries: Pandas, Numpy, TensorFlow, Keras, Scikit-learn, PyTorch
Machine Learning Algorithms: Logistic Regression, Decision Trees, Neural Networks, Random Forests
Data Transformation: ETL, Power Query
Statistical Analysis: Hypothesis Testing
Big Data Technologies: Databricks, Synapse
Tools: Microsoft Office Suite, DAX, Pivot Tables
Integrated Development Environments: PyCharm, VSCode, Jupyter, Rstudio**,** GitHub
Certifications: Machine Learning (HarvardX), Google Data Analytics Professional Certificate

PROJECT EXPERIENCE

Visualization of Data Scientist Job Salaries May 2023

- Executed extensive data analysis on job salary data for data scientist positions, identifying key industry trends and patterns, resulting in actionable insights for optimizing compensation strategies.
- Leveraged advanced cloud-based technologies such as Snowflake and S3Bucket to efficiently store and retrieve large volumes of job salary data, streamlining the analytical process by 30%.
- Designed interactive dashboards using Power BI to visually depict the distribution of Data Science job salaries based on experience levels and job titles for 2023.

Construction Safety Analysis using OSHA Dataset.

- Extracted and analyzed 100k records from OSHA Website using advanced web-scraping techniques, resulting in enhanced data quality and improved understanding of safety trends within the construction industry.
- Applied Principal Component Analysis (PCA) to effectively reduce the dimensionality of the dataset, resulting in more efficient data representation and analysis.
- Engaged K-means Clustering technique to determine the optimal number of clusters (K) and identify distinct safety profiles among construction companies, allowing for targeted safety interventions and improvements.