

## SUSMITHA ARIKATLA

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### 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

**Database Management:** MySQL, SQL Server, PostgreSQL, Azure ML Studio, Oracle, Snowflake

**Python Libraries** : Pandas, Numpy, TensorFlow, Keras, Scikit-learn, PyTorch

**ML Algorithms** : Logistic Regression, Decision Trees, Neural Networks, Random Forests

**Data Transformation** : ETL, Power Query

**Statistical Analysis** : Hypothesis Testing

**SAP Technologies** : SAP Hana Studio, SAP Business Object, SAP Analytics Cloud, BW Queries, ECC

**Tools** : Microsoft Office Suite (Word, Excel, PowerPoint, Outlook), DAX, Pivot Tables

**Certifications** : Machine Learning (HarvardX), Google Data Analytics Professional Certificate

### PROJECT EXPERIENCE

**Construction Safety Analysis using OSHA Dataset**

Apr 2023

- 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.
- Employed 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.

**Visualization of Data Scientist Job Salaries**

Dec 2022

- Performed 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.
- Utilized 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 and Crafted interactive dashboards using Power BI to visually depict the distribution of Data Science job salaries based on experience levels and job titles for 2023.

**Seoul Bike Sharing Demand**

Aug 2022

- Collected and aggregated data from various sources to create a comprehensive dataset for analysis (EDA)
- Cleaned, normalized, and engineered features in the dataset to ensure data integrity and suitability for modeling.
- Applied predictive models, including regression and machine learning algorithms, to accurately forecast the demand for bikes at different stations. Achieved 80% accuracy rate, significantly improving bike sharing demand forecasting in Seoul.

**Optimization of SVM Classifier using Kernel and Ensemble Techniques**

Apr 2022

- Created custom kernel functions for SVM using Sine, Cosine, RBF, Gaussian, and Polynomial functions using kernel tricks to train unbalanced data. Used Boosting and Bagging methods on custom kernel SVM models to improve accuracy. Enhanced accuracy of the models by more than 15% when compared with inbuilt SVM functions.