

# Susmitha Arikatla

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## EDUCATION

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

- Awards & Scholarships: Dean's Honors List, Engineering Dean's Master Scholarship, Master's Competitive Scholarship
- **Relevant Courses:** Neural Networks, Machine Learning, Statistics, Predictive Analytics, Database Management, Big Data, Time series Forecasting, Hypothesis Testing

**Bachelor in Electronics and Communication Engineering | A.P, India| CGPA: 8.6**

## SKILLS

- SQL (SQL Server, MYSQL, PostgreSQL), DBT, R
- Microsoft Azure, Snowflake, Informatica, AWS
- Python (Pandas, Numpy, SciPy, Matplotlib, TensorFlow, NLTK)
- Modeling (Regression, Decision Tree, Clustering)
- Tableau, Microsoft Power BI, Qlik Sense
- Excel (VLOOKUP, Conditional Formatting, Pivot Tables), PowerPoint, Word, DAX

## ACEDAMIC PROJECTS

**Construction Safety Analysis using OSHA Dataset**

**Tech Stack:** Numpy, Google Collab, Power BI, Excel

- Extracted and analyzed 100k records from the OSHA Website using advanced web-scraping techniques, resulting in enhanced data quality and improved understanding of safety trends within the construction industry.
- Utilized 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**

**Tech Stack:** Snowflake, S3Bucket, Power BI, SQL

- 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 developed interactive dashboards using Power BI to visually depict the distribution of Data Science job salaries based on experience levels and job titles for 2023, facilitating easy interpretation of complex data by stakeholders.

**Seoul Bike Sharing Demand**

**Tech Stack:** Regression, Google Collab, MySQL, Python, Tableau

- Collected and aggregated data from various sources to create a comprehensive dataset for analysis.
- Cleaned, normalized, and engineered features in the dataset to ensure data integrity and suitability for modeling.
- Developed 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.

## WORK EXPERIENCE

**Information Visualization – Teaching Assistant | University of Houston | Houston, Texas**

- Assisted in designing/editing course content, administered student activity, and performed administrative assessments.
- Graded and provided detailed feedback on 60+ assignments per week, resulting in a 20% reduction in student inquiries and a 15% improvement in student grades.

**Project Planning & Implementation Engineer | Tata Communication | Chennai, India**

- Developed 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, clients, and team members.

## CERTIFICATIONS

- Machine Learning – Harvard University - EDX
- Google Data Analytics Professional Certificate
- Snowflake