SUSMITHA ARIKATLA

+1(281) -750-6048 | susmitha.usk7@gmail.com | [LinkedIn](#) | [Git Hub](#) | Houston, Texas

PROFESSIONAL EXPERIENCE:

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

- Showcased 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 dataanalysis.
- 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.

SKILLS:

Visualization Tools	: Tableau, Looker, Power BI, Qlik Sense, Microsoft Excel, Python (Seaborn, Matplotlib)
Tools	: MS Access, DAX, Pivot Tables, Power Query, SSIS,SSRS,DBA, SQL, Spark
Database	: MYSQL, MS SQL Server, PostgreSQL, Azure ML Studio, Oracle
Python Libraries	: Pandas, Numpy, TensorFlow, Keras, Scikit-learn, PyTorch.
Cloud Technologies	: AWS, GCP, Snowflake, Microsoft Azure
Environments	: GitHub, Google colab, PyCharm, VSCode, Jupyter, Rstudio
Data Modeling	: Logistic Regressions, Decision Trees, Multivariate Regression, Neural Networks, Random Forests
Certifications	: Machine Learning (HarvardX), Google Data Analytics Professional Certificate

PROJECT EXPERIENCE:

Data Analysis

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 **S3**Bucket to efficiently store and retrieve large volumesof job salary data, streamlining the analytical process by 30%.
- Designed interactive dashboards using **Power BI** to visually depict the distribution of Data Science job salariesbased on experience levels and job titles for 2023.

Data Science

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.
- 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.

Data Science

Online Optimization of SVM Classifier using Kernel and Ensemble Techniques   *Aug 2022*

- Designed custom kernel functions for **SVM** using kernel tricks to train unbalanced data.
- Utilized 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.

Data Science

Online class monitoring tool using facial recognition and emotion analysis   *Jun 2022*

- Employed Pandas, SciPy, Scikit-learn, PyTorch, and other libraries to process images from video frames.
- Built modules using state-of-the-art technologies such as **FaceNet** and **DeepFace** for analysis. Recorded the emotions of students throughout a video lecture and presented a detailed report.

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, Master's Competitive Scholarship

Relevant Courses: Neural Networks, Machine Learning, Statistics, Predictive Analytics, Database Management, Big Data