

SUSMITHA ARIKATLA

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PROFESSIONAL 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

- Implemented 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 KPIs.
- Combined 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	: Microsoft Office, DAX, Pivot Tables, Power Query, Financial Modelling SQL, Spark, SAS, VBA
Database	: MYSQL, MS SQL Servers (SSIS, SSAS, SSRS), 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

- 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.

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.
- 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.

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.
- Used **Boosting** and **Bagging** methods on custom kernel SVM models to improve accuracy.
- Increased 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

- Used Pandas, SciPy, Scikit-learn, PyTorch, and other libraries to process images from video frames.
- Developed modules using state-of-the-art technologies such as **FaceNet** and **DeepFace** for facial recognition and emotion analysis. Documented 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