SAFIULLAH MOHAMMED

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SUMMARY

Recent graduate with a strong foundation in data science, specializing in machine learning, data visualization, and problem-solving. Proficient in SQL, Excel, Tableau, and Power BI, with knowledge of Azure Fundamentals for optimized data processing. Passionate about driving innovation in the field of data science and analytics, dedicated to continuous learning and contributing fresh perspectives to a dynamic team.

EDUCATION

Master of Science (MSc) in Big Data Analytics | Edge Hill University, Ormskirk, United Kingdom | Jan 2022 – May 2023

Bachelor of Engineering (B.E) in Electronics and Communications Engineering | Osmania University, Hyderabad, India | 2015 - 2019

EXPERIENCE

Research Scholar (Financial Fraud Detection with Machine Learning) | Edge Hill University, UK | Jan 2023 – Present

- Proficient in using Python and its libraries for comprehensive data exploration, pre-processing, and cleaning, facilitating accurate and reliable data analysis.
- Applied feature engineering and model selection to achieve high accuracy in classification.
- Conducted visualization and analysis using a range of tools to gain insights.
- Implemented various classification machine learning algorithms and compared their metrics to identify the best algorithm for the problem.
- Trained predictive models using machine learning tools and implemented ANN (Neural Networks) to predict fraud with high accuracy.
- Presented findings to management and received positive feedback for the effectiveness in preventing fraud.
- Maintained good coding practices and documentation detailing the approach and analysis to generate reproducible works.

Skills: Data Preparation, Data Cleaning, Exploratory Data Analysis, Python, Pandas, NumPy, Machine Learning, Deep learning, Neural Networks

ACADEMIC PROJECTS

MACHINE LEARNING

ROLE:

- Proficient in Python-based machine learning, adept at developing robust models for various applications such as customer churn prediction, personalized recommendation systems, and accurate classification tasks.
- Proficient in pre-processing and analysing large datasets using popular Python libraries such as scikit-learn, pandas, and NumPy.
- Experienced in applying a wide range of supervised and unsupervised learning algorithms, employing feature engineering and selection techniques to enhance model performance and generalization.
- Proficient in leveraging natural language processing (NLP) methods to extract valuable insights from customer reviews through sentiment analysis.
- Well-versed in utilizing deep learning frameworks, including TensorFlow and Keras, to develop and train accurate neural network models for image classification tasks.

Skills: Python, Pandas, NumPy, Scikit-Learn, NLP, TensorFlow, Keras, Feature Selection, Cross Validation, Classification report, Neural Networks

SQL

ROLE:

- Proficient in advanced SQL techniques for developing complex queries, data extraction, transformation, and analysis from relational databases.

- Skilled in handling missing or incomplete data, removing duplicates, resolving inconsistencies, and addressing outliers.

- Experienced in performing data modifications, ensuring the integrity and consistency of the database.

- Proficient in utilizing SQL functions and expressions for complex data manipulations, calculations, and transformations.

- Demonstrated expertise in employing data cleaning techniques to ensure data integrity and reliability.

- Skilled in utilizing powerful SQL operations like JOINS, UNIONS, and CASE statements for combining and analysing data from multiple tables.

- Deep understanding of advanced SQL concepts such as CTEs, Temp Tables, Subqueries, and Stored Procedures for efficient data retrieval and manipulation.

Skills: SQL, Querying databases, Data extraction and transformation, Data analysis and reporting, Data cleaning and validation, SQL Server, SQL Server Management Studio (SSMS)

TABLEAU

ROLE:

- Skilled Tableau Developer with expertise in designing interactive dashboards and visualizations.
- Strong experience in data modeling, blending, and aggregation to create optimized data structures.
- Proficient in creating complex calculations and advanced analytics using Tableau's calculation language.
- Knowledgeable in connecting to various data sources and integrating multiple datasets for comprehensive visualizations.

Skills: Tableau, Dashboard Design, Data Visualization, Data Analysis, SQL, Business Intelligence

POWER BI

ROLE:

- Proficient in data modeling, data extraction, transformation, and loading (ETL) processes within Power BI to create optimized data models for analysis.

- Skilled in creating complex DAX (Data Analysis Expressions) formulas to derive meaningful insights and calculations in Power BI.

- Expertise in designing and implementing interactive visuals, including charts, graphs, and maps, to effectively convey data-driven insights.

- Proficient in creating and configuring data connections, including direct queries, import, and live connections, to various data sources.

- Extensive knowledge of Power Query Editor to perform data transformation, cleansing, and shaping tasks for optimal data preparation.

Skills: Power BI, Data Visualization, Data Modelling, DAX (Data Analysis Expressions), SQL, Power Query

EXCEL

ROLE:

- Leveraged Excel's functions and formulas to clean and transform raw data, ensuring data quality and accuracy.
- Analysed data using Excel's pivot tables, charts, and graphs, identifying trends and insights to support decision-making processes.
- Developed data models and utilized Excel's forecasting tools to predict future trends based on historical data.

Skills: Data Cleaning, Data Manipulation, Pivot tables, forecasting, formulas and functions, data visualization

TRAININGS AND CERTIFICATIONS

- Microsoft Azure Fundamentals (AZ-900)
- Microsoft Azure Data Fundamentals (DP-900)
- Microsoft Power Platform Fundamentals (PL-900)
- Microsoft Office Specialist Excel Certification
- SQL Essential Training | LinkedIn Learning
- Tableau Desktop 1: Fundamentals Training| Tableau