MUSADDIK MAULAVI

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PROFESSIONAL SUMMARY

Professional with a strong foundation in data analysis, complemented by a recently completed Master's in Data Science. Skilled in python, machine learning, data analysis, and SQL, with a proven ability to analyse and interpret large datasets to drive data-informed decisions. Experience includes optimizing backend systems for greater efficiency, developing data visualizations to communicate insights effectively, and applying statistical techniques to projects such as price prediction and fraud detection. Recognized for problem-solving expertise, clear communication, & a collaborative approach, excelling both independently and in team environments.

EDUCATION

University of Essex, United Kingdom — **Colchester, United Kingdom**
Masters in Data Science | *Completed (2024)* | *Distinction* — Oct 2023 – Nov 2024

Savitribai Phule Pune University — **Pune, India**
BE in Computer Engineering | *Completed (2022*) | *First Class Distinction* | *CGPA: 9.19* — Aug 2018 – Aug 2022

PROFESSIONAL EXPERIENCE

Qabas — **London, United Kingdom**
Data Scientist (Contract) — Jan 2025 – *Present*

- Utilized Python and SQL to automate data extraction, cleaning, and transformation processes, enhancing the efficiency of the data pipeline.
- Conducted statistical analysis and hypothesis testing, enabling data-driven decision-making across the organization.

Crowwd — **London, United Kingdom**
Data Analyst (Internship) — May 2024 – August 2024

- Executed in-depth industry research and benchmarking analysis, identifying key market trends and uncovering lucrative investment opportunities that contributed to a 10% expansion in portfolio value.
- Conducted stock price predictions utilizing LSTM, neural networks, and Python.

Solar Secure IT Solutions ***(Remote)*** — **Bangalore, India**
Data Science Intern — Oct 2023 – Dec 2023

- Extracted, cleaned, and analyzed large datasets using Python and SQL.
- Created data visualizations with Matplotlib and Seaborn to present findings, facilitating data-driven decision-making.
- Applied statistical methods for projects including hotel price prediction and credit card fraud detection.

Capgemini ***(On-site)*** — **Pune, India**
Data Analyst (Full-time) — Sept 2022 – Sept 2023

- Designed and developed backend systems, enhancing efficiency by 30% through optimized algorithms.
- Collaborated with frontend teams to implement new features, increasing user engagement by 25%.
- Utilised Python, SQL to handle the database at the backend.

AREAS AND EXPERTISE

- Python
- Data Analysis
- Data Visualization
- Statistical Analysis
- SQL
- Model Deployment
- Artificial Intelligence
- Data Modelling
- Database Management
- Data Cleaning & Processing
- Stakeholder Communication
- Feature Engineering
- PowerBI
- Snowflake
- Machine Learning
- Pytorch
- Cross Functional Collaboration
- Deep Learning

SKILLS AND CORE COMPETENCIES

- **Programming Languages:** Python, SQL, R, C, C++
- **Data Science**: Statistical Modelling, Machine Learning, Data Mining, Feature Selection, Unstructured Data Analytics, NLP.
- **Tools and Technologies**: Matplotlib, Seaborn, SAS, Power BI, Tableau, Keras, Spark, Advanced Excel, Agile Methodologies
- **Cloud Technologies**: AWS, Azure
- **Database Management**: Relational Databases, Advanced SQL
- **Analytical Techniques**: Regression Analysis, Predictive Analysis, Data Cleaning and Processing
- **Soft Skills**: Excellent Communication, Stakeholder Management, High Self-motivation, Autonomous Work

PROJECTS

1. **Object Detection and Recognition to assist blinds using ML Algorithm *(June 2021 – May 2022)*** Link
   - Led a team in developing a Machine Learning model to detect and recognize objects in real-time using image processing techniques.
   - Implemented TensorFlow and OpenCV for building the detection pipeline, enabling effective navigation for visually impaired individuals.
   - Improved model accuracy through hyperparameter tuning and dataset augmentation, achieving over 85% precision in object recognition.
2. **Data Analysis and Data Visualisation on Insects data using R programming *(Oct 2023 – Jan 2024)*** Link
   - Conducted a comprehensive Exploratory Data Analysis (EDA) on insect datasets, identifying patterns, trends, and seasonal variations.
   - Used R Programming to implement this project.
   - Highlighted ecological implications and presented data-driven recommendations.
3. **Bangalore House Price Prediction *(June 2023 – Sept 2023)*** Link
   - Built a predictive model using regression techniques to estimate house prices based on location, size, and other features.
   - Utilised Scikit-learn and NumPy for model development and feature engineering, achieving a high R-squared score.
   - Plotted graphs and visualized different trends in the data using libraries such as Matplotlib and Seaborn, highlighting correlations between features like location, size, and price.
4. **Flight Price Prediction using AI/ML model *(Jan 2024 – Apr 2024)*** Link
   - Designed and implemented a machine learning model to predict flight ticket prices using historical data and features such as airline, duration, and layovers.
   - Used SVR, Random Forest Regressor, XGBoost for improved prediction accuracy, with extensive model evaluation through cross-validation.
   - Generated insights on seasonal pricing trends, aiding airlines in revenue optimization and passengers in cost savings.
5. **Global Video Games Sales Analysis *(Jan 2024 – Apr 2024)*** Link
   - Analyzed sales data across regions and platforms to identify factors contributing to global video game market trends.
   - Utilized Python Pandas for data extraction and processing, followed by advanced visualization to uncover insights.
   - Presented key findings, such as top-performing genres and platforms, which can drive targeted marketing strategies.
6. **EDA and Data Visualisation on Colchester Crime Data *(Feb 2024 – May 2024)*** Link
   - Performed Exploratory Data Analysis on crime data to identify trends and hotspots in Colchester.
   - Created heatmaps and time-series visualizations in R programming, highlighting areas with high crime rates.
   - Provided actionable insights for law enforcement to allocate resources effectively.
7. **EDA and Data Visualisation on Colchester Weather Data *(Feb 2024 – May 2024)*** Link
   - Conducted data cleaning, preprocessing, and analysis on weather datasets to uncover patterns and anomalies in Colchester's climate.
   - Designed interactive visualizations and EDA in R programming.
   - Presented insights to supervisor for applications in agriculture and urban planning.
8. **Real Estate Multi-City House Price Analysis *(Mar 2024 – Sept 2024)*** Link
   - Executed a cross-city comparative analysis of real estate prices, identifying economic and demographic factors affecting housing markets.
   - Utilized Python, SQL for data integration, analysis, and visualization, enabling clear communication of trends and findings.
   - Delivered insights into housing affordability and investment opportunities.
   - Developed and deployed a live interactive website integrating the ML model, using Flask for the backend to enable seamless user interaction and real-time predictions.
9. **IPL Analysis using PowerBI *(Jan 2025 – Feb 2025)*** Link
   - Analyzed and cleaned IPL cricket league data spanning from the 2008 edition to the 2020 edition, ensuring accuracy and consistency for meaningful insights.
   - Designed and developed an interactive dashboard in Power BI, enabling visualization of key metrics and trends across IPL seasons.
10. **Amazon Prime Analysis using PowerBI *(Nov 2023 – Dec 2023)*** Link
    - Designed and developed an interactive Power BI dashboard to visualize user trends, subscription patterns, and content performance.
    - Analyzed key metrics such as viewer demographics, popular genres, and content engagement.
    - Provided actionable insights to enhance decision-making and optimize content strategies.
11. **Motor Insurance Portfolio Analysis** Link
    - Cleaned and wrangled a motor insurance dataset containing 100,000 policyholder records using Python and pandas.
    - Created 30+ insightful visualizations to explore the distribution of claim frequency and claim severity across different risk factors.
    - Calculated and analyzed loss ratios to identify potentially overpriced and underpriced customer segments, supporting data-driven pricing decisions to improve profitability.