Mohamed Hussain Yusuf

Data Scientist

inbox2mohamedd@gmail.com +971-554437876

www.linkedin.com/in/mohamedgo github.com/MohamedHussain05

Ajman , UAE

SUMMARY

As a data scientist, I have honed my skills over the past 2.5 years, leveraging data analytics to drive business insights and informed decision-making. My expertise includes Machine Learning Algorithms, Deep Learning, Natural Language Processing (NLP), Statistical Analysis, Data Visualization Tools and Predictive Modeling. Excited to leverage my expertise to develop impactful data-driven solutions.

SKILLS

PROGRAMMING: Python

PYTHON LIBRARIES: Pandas | NumPy | Scikit-Learn | Seaborn | Matplotlib | OpenCV | TensorFlow | SciPy | BeautifulSoup | FlaskAPI | FastAPI

MACHINE LEARNING: Decision Tree | Random Forest | Naive Bayes | K-Nearest Neighbor | Support Vector Machine | XGBoost | AdaBoost | Gradient | Boosting | Logistic Regression & Linear Regression | K-means | Hierarchical Clustering | DBSCAN | Exploratory Data Analysis | Feature Engineering | Hyper Parameter Optimization | Time Series Analysis | Forecasting | Predictive Modelling | Data Visualizations | Data Analysis.

DEEP LEARNING: Artificial Neural Networks | Recurrent Neural Networks | Convolution Neural Network | Optimization Techniques | OpenCV (Image and Video Processing).

NATURAL LANGUAGE PROCESSING: LSTM | Transformers | GenAI (LLM | Langchain | Vector Database | RAG | LangGraph | LangSmith | LangServe | Hugging Face)

SOFTWARE: Power BI | Spyder | Jupyter | PyCharm | Visual Studio Code | MySQL | Postgre SQL | MongoDB

PROFESSIONAL EXPERIENCE

Feb 2023 – Jul 2024
United States

JMAF LABS
Machine Learning Engineer (remote)

- Implemented and optimized machine learning algorithms for improved model accuracy, achieving a 20% increase in prediction performance.
- Cleaned and preprocessed raw customer data (e.g., handling missing values, normalization), resulting in a 30% uplift in user engagement for the e-commerce platform's recommendation system.
- Evaluated and compared the performance of various machine learning models using metrics like accuracy, precision, and recall, contributing to an open-source image recognition project with over 10k downloads.
- Collaborated with data scientists, software engineers, and domain experts to present 10+ research findings at a machine learning conference, contributing to a 25% increase in industry recognition and thought leadership.

Sep 2019 – Jan 2023
Bangalore, INDIA

WIPRO
Data Analyst

- Developed and Integrated data analytics strategies that resulted in a 35% increase in overall efficiency.

- Designed and built comprehensive data models to streamline data processing, contributing to a 50% reduction in data extraction time.
- Designed and deployed interactive data visualization dashboards using Tableau, empowering stakeholders to translate complex data sets into actionable insights and drive improved decision-making, leading to a 10% boost in resource allocation efficiency.
- Identified and resolved data quality issues, reducing inaccuracies by 40% and ensuring data integrity.

PROJECTS

PhonePe Data Visualization and Exploration
Key Skills : Python | Pandas | Streamlit | Plotly | MySQL
- Identified a 10 million dollar cost gap due to limited actionable insights from financial transaction data in Fintech.
- Constructed a Streamlit app to process the PhonePe Pulse dataset, extracting and visualizing 20+ unique spending patterns by location and brand for a large user base.
- Leveraged Exploratory Data Analysis to analyze transaction types and user demographics, increasing fraud detection accuracy by 12%.
- Delivered actionable insights for data-driven decision-making, leading to a 30% improvement in customer acquisition for Fintech companies.

Youtube Data Harvesting and Warehousing
Key Skills : Python | Pandas | MySQL | Streamlit | MongoDB | API
- Inefficient data management hampered in-depth analysis of YouTube channel performance. Manually collecting, storing, and analyzing data from YouTube channels was labor-intensive, limiting the ability to gain actionable insights. This resulted in 40% less time.
- Automate data collection and build a platform for comprehensive YouTube channel analysis.
- Architected and made operational a user-friendly Streamlit application utilizing the Google API to automate data extraction for YouTube channels. Migrated data to a scalable SQL data warehouse from MongoDB for efficient querying.
- Achieved a 50% reduction in data processing time through automation. The platform provides deeper insights into channel performance metrics, including subscriber demographics, content engagement.

CarDekho Vehicle Recommendation System
Key Skills: SQL, EDA , Machine Learning , Pickling
- Built CarDekho Vehicle Price Recommendation System and used collaborative filtering technique.
- Deployed to help the customer to get recommendation based on the price and automotive features.
- Scraped the real time data of 10,000 cars from CarDekho and Modeled a pipeline to convert unstructured data to structured data to additionally create 25 features from raw data.
- Achieved precision@10 score of 0.75, indicating strong performance of machine learning model in recommending relevant items to users.

Smart House Price Prediction
Key Skills: PowerBI, Streamlit , EDA ,Machine Learning
- Created machine learning model to accurately predict house prices in smart housing market.
- Aim to provide precise pricing estimates and optimize user experience for potential buyers and sellers.
- Created interactive data visualization dashboard using statistical technique to analyze pricing trends.
- Implemented machine learning algorithms and attained impressive R-squared (R^2) score of 0.85, model indicating strong correlation between predicted and actual house prices.

EDUCATION

2014 – 2018 **Suguna College of Engineering | Anna University**
Coimbatore, India **B.E. Mechatronics**