

Mohamed Hussein

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Portfolio: https://mohammedhussein22.github.io/ds_labs/#portfolio

Professional Summary

Passionate **Data Scientist** with two years of experience in **data analysis, machine learning, and statistical modeling**. Adept at transforming raw data into **actionable insights** to drive business decisions. Skilled in **Python, R, and big data technologies**, with a strong background in **predictive modeling, time series analysis, and deep learning**.

Skills

- ✓ **Programming:** Python, R.
- ✓ **Machine Learning:** Supervised & Unsupervised Learning, NLP, Deep Learning, Time Series Forecasting.
- ✓ **Data Visualization:** Matplotlib, Seaborn, Power BI, Tableau.
- ✓ **Big Data & Cloud:** Spark, Hadoop, Google Cloud.
- ✓ **Other Tools:** TensorFlow, Scikit-Learn

Projects

Diamond Price Analysis

- **Developed an XGBoost-based machine learning model** to predict diamond prices based on key attributes, achieving an **accuracy of 98%**.
- **Performed exploratory data analysis (EDA)** using **Pandas, NumPy, and Matplotlib** to uncover patterns and insights in the dataset.
- **Applied feature engineering techniques** to enhance model performance and improve prediction accuracy.
- **Visualized relationships** between diamond characteristics (carat, cut, clarity, color) and price using advanced data visualization techniques.

British Airways Data Science Simulation

- Participated in a **real-world simulation analyzing airline operational data** to enhance efficiency.
- Developed **models to predict** flight delays based on weather conditions and traffic patterns.
- Created dashboards in **Tableau** to visualize insights for operational decision-making.

Commonwealth Bank Data Science Simulation

- Conducted **data-driven analysis on financial transactions** to identify fraud patterns.
- Implemented **machine learning models** to improve fraud detection accuracy.
- Presented findings through interactive **Power BI dashboards** for senior stakeholders.

Accidents Data Analysis & Prediction

- Developed a **Random Forest-based machine learning model** to predict **diamond prices** with an **85% accuracy**, leveraging key attributes.
 - Conducted **exploratory data analysis (EDA)** using **Pandas, NumPy, and Matplotlib** to identify patterns and extract meaningful insights.
 - Applied **feature engineering techniques** to optimize model performance and enhance predictive accuracy
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Education



Bachelor in statistics and planning [Benadir University]



Certifications



Google Data Analytics Professional Certificate



IBM Data Science Professional Certificate



Complete Data Science Bootcamp 2025



Languages



English (Fluent)



Arabic (Fluent)



Somali (Fluent)
