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.

📌 **Data Technology Roles Analysis**

• Conducted **exploratory data analysis (EDA)** using **Pandas, NumPy, and Matplotlib** to identify key patterns and trends in the dataset.
• Leveraged **advanced data visualization techniques** to analyze the relationships between **gender, current annual salary, and preferred programming languages** in various data technology roles.

📌 **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)**
