HASSAN IQBAL

Data Scientist

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Summary

Motivated Data Science Intern with a strong foundation in statistics, machine learning, and data analysis. Skilled in **Python, SQL**, and **data visualization** using tools like **Matplotlib**, **Seaborn**, and **Excel**. Familiar with end-to-end workflows including **data cleaning, exploratory analysis**, and **model building** using libraries such as **Pandas, Scikit-learn**, and **NumPy**. Eager to apply theoretical knowledge to real-world problems, contribute to data-driven decision-making, and grow within a collaborative and innovative team environment.

Education

University of Lahore	Lahore, Pakistan
MS, Data Science	02/2025 - Present
University of Education	Lahore, Pakistan
Bachelor of Mathematics	11/2019 - 05/2023

Projects

Data Science Projects

Projects focused on the application of advanced ML and AI technologies.

- **Exoplanet Classification** using Kepler data with custom feature visualizations and anomaly detection.
- **Solar Flare Detection, Galaxy Classification, Spam Email Detection** using supervised models and data mining techniques.
- **Voice Biometrics System**: Developed speaker authentication using deep audio features.
- Visualized key features and patterns contributing to classification models for exoplanet detection and habitability assessment.
- Engineered features using domain-specific knowledge and statistical methods.
- Focused on pattern detection in time-series data from NASA Kepler datasets, supervised and unsupervised learning techniques, CNNs, autoencoders, and ensemble models.

Skills

Python · Colab · Keras · Scikit-learn · Pandas · Numpy

Matplotlib · Seaborn · Feature Importance Graphs · Interactive Dashboards · OOP · Data Structures · MySql · Graph query language · MongoDB

Machine Learning · Agentic AI · NLP · Anomaly Detection · Data Mining

Feature Engineering · Data Processing · SMOTE · Imputation · Interpolation · Data Cleaning · Pattern Recognition

Hadoop · Power BI · Excel · Kaggle · Orange · Knime · Kinaba · Logstash · Neo4j · OWL