Samira Jawish

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LinkedIn Profile, GitHub

SUMMARY

Early-career Data Scientist with a strong foundation in data analysis, machine learning, and real-time systems. Skilled at transforming raw data into actionable insights and developing solutions that address real-world challenges. Committed to continuous learning, experimentation, and effective team collaboration to deliver measurable impact.

TECHNICAL SKILLS:

Languages: Python, R, SQL, C++, Java (OOP), DAX, HTML, CSS

Data Analysis & Visualization: Pandas, Power BI, Streamlit, Matplotlib, Seaborn

Machine Learning & Deep Learning: scikit-learn, TensorFlow, Keras

Data Engineering: Selenium, FFmpeg, Websockets, Power Query

Tools & Platforms: Jupyter, Google Colab, Git, GitHub, Bravo Studio

Soft Skills: Problem-Solving, Leadership, Project Management, Communication

PROJECTS:

Human Activity Classification – Machine Learning Project **September 2025**

- Built a supervised machine learning system to classify human activities (walking, standing, sleeping, running) from real-time sensor data.
- Implemented and optimized Random Forest and AdaBoost classifiers, achieving 97.4% accuracy through feature engineering and hyperparameter tuning.
- Designed the pipeline for real-time testing, including data preprocessing, scaling, and dimensionality reduction to ensure robust performance.
- Assessed results with precision, recall, and F1-score, demonstrating strong generalization for real-world applications.

MNIST Handwritten Digit Classification – Deep Learning Project ***View*** **August 2025**

- Built a practical feedforward neural network (multilayer perceptron) to classify handwritten digits from the MNIST dataset, achieving 97% accuracy.
- Applied data preprocessing, normalization, and augmentation to improve model generalization.
- Developed and tested the model using Keras and TensorFlow in Google Colab.
- Evaluated performance with accuracy metrics and confusion matrix, demonstrating reliable digit recognition for practical applications.
- Created a Prediction System that allows users to insert an image and experiment with the model.

NASA Asteroid Hazard Classification – Team Project (1st Place Winner) **14 July 2025 -26 July 2025**

- Performed exploratory data analysis (EDA) on NASA's asteroid dataset, uncovering key trends and correlations to inform hazard assessment.
- Collaborated with the modeling team to prepare clean, feature-engineered datasets for Random Forest, SVM, and Logistic Regression classifiers.
- Created interactive and insightful visualizations using Seaborn and Matplotlib, supporting data-driven decision-making for asteroid risk evaluation.

CERTIFCATIONS AND ACHIEVEMENTS

1st Place – AI Summer Sprint Bootcamp 2025 | GDG, Lebanese University F1 On Campus, Near East University, CodeWithSerah | July 2025
2nd Place – Code for Inclusion Hackathon | AUB Innovation Park | June 2025
IoT Fundamentals Certification | Cisco