Syeda Umama Ali

usyed2692@gmail.com | 0310-2260819 | LinkedIn Profile

Professional Summary

Statistics graduate with hands-on experience in machine learning, Python programming, and statistical analysis. Skilled in building and optimizing classification models, working with large-scale datasets, and translating data into actionable insights. Seeking to apply strong analytical and problem-solving skills in an ML/AI Engineering role.

Education

Bachelor of Science (BS) in Statistics **2025**
Federal Urdu University of Arts, Science and Technology
CGPA: 3.07

Technical Skills

Programming Languages: Python, SQL
Machine Learning & AI: Scikit-learn, TensorFlow, PySpark, Machine Learning, Statistical Computing
Data & Analytics: Power BI, SPSS, EViews, Advanced Excel, Data Cleaning, Forecasting, Statistical Analysis, Data Visualization
Tools & Platforms: Jupyter Notebook, Git, GitHub, Docker, MS Office
Other: Report Building, Dashboard Creation
Soft Skills: Problem Solving, Self-Motivated, Quick Learner, Hard Working, Communication

Projects

Fraud Detection Using Random Forest *Python, Scikit-learn, Random Forest*

- Developed a fraud detection classification model using Random Forest on a large-scale dataset of 568,000+ data points.
- Optimized model performance through parallel computing (n_jobs=-1), hyperparameter tuning (max_samples, max_depth), and feature importance analysis.
- Achieved an average F1-score of 0.95 using Stratified K-Fold Cross-Validation, ensuring robust and reliable classification performance.

Professional Experience

Union Council Support Person (UCSP) *Aug 2025 – Present*
World Health Organization – National Emergency Operations Center, Sindh

- Coordinated and supervised polio campaign activities at the Union Council level to ensure smooth field operations.
- Collected, verified, and reported immunization data to improve campaign planning and performance tracking.
- Engaged community leaders and households to raise awareness and increase vaccination coverage.

Certifications & Conferences

- Big Data Analytics – Institute of Business Administration (IBA), Karachi
- Microsoft Fabric Data Engineer
- Statistical Analysis – University of Karachi
- 21st International Conference on Statistical Science, Dec 2024 – *"Mobilizing Data Science & Big Data to Achieve SDGs"*, organized by Dow University and Baqai Medical University, Karachi