Muhammad Javed

Entry-Level Machine Learning Engineer

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Professional Summary

Software Engineering undergraduate with hands-on experience in Machine Learning, Data Science, and AI development. Proficient in Python, C++, and modern ML frameworks with demonstrated ability to build end-to-end data solutions. Passionate about leveraging AI to solve complex problems at scale.

Education

University of Karachi — Karachi, Pakistan
Bachelor of Science in Software Engineering (BSSE) – CGPA: 3.3/4.00 — *Jan 2025 – Dec 2028*

- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Systems, Software Engineering

Saylani Mass IT Training (SMIT) — Karachi, Pakistan
Artificial Intelligence and Data Science Program — *2025 – Present*

- Advanced training in Machine Learning, Deep Learning, Natural Language Processing, and Data Analysis
- Hands-on projects involving real-world datasets, predictive modeling, and automation

Technical Skills

Programming Languages: Python, C++, SQL, JavaScript, HTML/CSS
Machine Learning & AI: Deep Learning, Natural Language Processing (NLP), Computer Vision, Neural Networks, Model Optimization
Frameworks & Libraries: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Keras, OpenCV
Data Engineering: Web Scraping (Selenium, BeautifulSoup), Data Cleaning, Feature Engineering, ETL Pipelines
Tools & Technologies: Git, Jupyter Notebook, Google Colab, VS Code, Linux, Docker (familiar)
Core Competencies: Data Structures & Algorithms, Statistical Analysis, Software Design Patterns, Problem Solving, Agile Development

Projects

Fake News Detection System | *Python, NLP, NLTK, Random Forest, TF-IDF, Scikit-learn* — 2025

- Engineered NLP pipeline processing news articles using lemmatization, stopword removal, and TF-IDF vectorization achieving 95%+ accuracy with Random Forest Classifier and 0.97 AUC score
- Created comprehensive visualizations including WordClouds, ROC curves, and feature importance plots to interpret model decisions and identify key predictive patterns

Brain Tumor Detection using CNN | *TensorFlow, Keras, CNN, Medical Imaging, OpenCV* — 2025

- Developed deep learning medical imaging system using CNNs to classify brain MRI scans achieving 91% validation accuracy and 89% test accuracy with custom architecture including batch normalization and max pooling
- Implemented data augmentation pipeline expanding dataset from 253 to 2,065 images, addressing class imbalance and improving model generalization to achieve F1-score of 0.91

Student Performance Prediction System | *Python, Pandas, Scikit-learn, Matplotlib, Seaborn* — 2025

- Built supervised learning models to predict student academic performance using multiple regression and classification algorithms with comprehensive EDA and feature engineering
- Created interactive visualizations highlighting correlations between academic factors and developed end-to-end ML pipeline for reproducible analysis

Achievements & Activities

- Active open-source contributor in AI/ML communities; completed 100+ algorithmic problems on LeetCode and HackerRank
- Participated in hackathons and coding competitions; self-learner staying current with AI/ML research papers and advancements

Availability

- Seeking part-time internship opportunities with flexible scheduling to balance academic commitments
- Available for remote or onsite roles; eager to apply technical skills and contribute to real-world ML/AI projects