

Name:

Taiba Tariq

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Career Objective / Profile:

Motivated Data Science undergraduate with a strong foundation in C++, Python, and Machine Learning. Passionate about data-driven problem solving and analytical thinking. Experienced in working with real-world datasets, predictive modeling, and customer behavior analysis. Eager to apply data science concepts in a practical environment to drive meaningful insights and business solutions.

Education:

Bachelor of Science in Data Science, National University of Computer and Emerging Sciences (FAST-NUCES), Islamabad, Relevant Courses: a Data Structure, Database Systems, Artificial Intelligence

Skills:

- Programming Languages: Python, Java, C++
- Web Development: HTML, CSS, JavaScript
- Technical skills: Data Analysis & Visualization, EDA, Machine Learning, Data Preprocessing, DSA, NumPy, Pandas, Scikit-learn, Matplotlib, OpenCV, Langflow, LangChain, HuggingFace
- Databases: MySQL
- Team Collaboration & Communication
- Languages: English, Urdu

Experience / Internships:

- AI/ML Intern AI GEN MAT — Internship
- Developed and trained ML models for House price prediction
- Developed and trained ML model using Logistic Regression to predict whether an employee will leave the company (Attrition) based on features like job role, distance from home, satisfaction level, etc.
- Developed and trained KNN-based machine learning pipeline from scratch (no prebuilt classifiers) to classify handwritten digits from the MNIST dataset.
- Loan Default Risk Prediction Using Decision Tree Classifier
- Performed data preprocessing and analysis using Pandas and NumPy. - Evaluated model performance and tuned hyperparameters for better accuracy.

Projects / Research:**Hand-Tracked Snake Game — Computer Vision & Python Project**

Built a real-time Snake Game controlled entirely via hand gestures using webcam. Tracked finger to control snake movement; implemented smooth motion and dynamic body length. Added gesture-based control system. Implemented collision detection with self and food using vector math and cv2.pointPolygonTest. Integrated

custom food visuals using transparent PNG overlays (overlayPNG)

Achievements / Extracurricular Activities:

- President, Wall Of Hope — March, 2025-present
- Head, FAST AI Society — September , 2025 –Present
- Volunteer, Nescom Hospital— April,2025