



MAZHAR ALI

Objective


AI & Machine Learning Engineer with hands-on experience in Machine Learning, Deep Learning, NLP, and Computer Vision. Skilled in building and deploying end-to-end, production-ready AI solutions using Python, SQL, FastAPI, and modern ML/DL frameworks. Passionate about developing scalable, data-driven systems and seeking AI / Machine Learning Engineer roles.


Technical Skills

- **Programming & APIs:** Python, SQL, FastAPI
- **Machine Learning:** Pandas, NumPy, Scikit-learn, Feature Engineering, Predictive Modeling
- **Deep Learning:** TensorFlow, PyTorch, CNNs, Transfer Learning
- **Computer Vision:** YOLOv8, OpenCV, OCR
- **NLP:** Text Classification, NLP Pipelines, AI Chatbots
- **Deployment:** FastAPI, Streamlit, ML Model Deployment
- **Data & Automation:** Web Scraping (BeautifulSoup, Selenium)
- **Databases:** SQL, Query Optimization
- **Tools:** Git/GitHub, Jupyter, VS Code, Google Colab
- **Foundations:** Supervised & Unsupervised Learning, Model Evaluation, OOP, DSA

Major Projects

- **Brain Tumor MRI Classification (Deep Learning | CNN)**
Built a medical image classification model using CNNs (EfficientNet) for brain tumor detection from MRI scans.
- **Vehicle Number Plate Detection (YOLOv8 + OCR)**
Developed a real-time object detection system using YOLOv8 and Tesseract OCR for automatic license plate recognition.
- **Forgery Detection System (Deep Learning | CNN)**
Designed a CNN-based model to classify forged vs. genuine signatures/images.

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Education

Bachelor of Computer Science (BSCS) – Superior University,
Lahore
2023 – 2027
CGPA: 3.43

F.Sc. Pre-Medical – Kips College
Bahria Campus
2020 – 2022
Marks: 1002 / A+

Matric (Science) – GHSS Manga
Mandi
2018 – 2020
Marks: 990 / A+

Soft Skills

Communication | Teamwork |
Problem-Solving | Critical Thinking |
Adaptability | Leadership | Time
Management | Creativity |
Emotional Intelligence

- **Handwritten Digit Recognition (CNN | TensorFlow/Keras)**
Implemented and trained a CNN on the MNIST dataset achieving high classification accuracy.
- **Heart Disease Prediction (Machine Learning)**
Built predictive models using Logistic Regression and Random Forest on clinical datasets.
- **House Price Prediction App (ML + Streamlit)**
Developed an end-to-end regression model with an interactive Streamlit web application.
- **Movie Recommendation System (Machine Learning)**
Implemented a content-based recommendation engine using similarity metrics.
- **Hospital Management System (SQL Server)**
Designed a relational database with schemas, triggers, and stored procedures.

Certificates

- **Introduction to SQL** – SoloLearn & Superior University (*May 2025*)
- **Python for Data Science, AI & Development** – IBM / Coursera (*July 2025*)
- **Data Analysis with Python** – IBM / Coursera (*Aug 2025*)

