

# MUNEEB ASHRAF

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Aynaet Baag Scheme, Opposite Shalimar Garden GT Road, Lahore, Pakistan

## Professional Summary

Aspiring Machine Learning professional with a strong academic background in Mathematics and hands-on experience with machine learning models, Python programming, and data analysis. Trained through internships and self-driven coursework in key ML concepts, with completed projects in computer vision, classification, regression, and backend web development. Gained hands-on exposure to object-oriented design, CRUD APIs, and database integration during internships. Eager to contribute to real-world problems and grow within the field of AI and data science.

## Education

- **Government College University, Lahore, Pakistan** (2020-2023)
  - **Master of Science (MSc)** – Mathematics
  - CGPA: **3.37/4.00**
- **Government Zamindar Postgraduate College Bhimber Road, Gujrat, Pakistan** (2018-2020)
  - **Bachelor of Science (BSc)** – Mathematics and Physics
  - Marks: **597/800**

## Work Experience and Internships

### Full-Time Positions

- **Hajveri Lyceum School, Lahore, Punjab, Pakistan** (Aug 2023 – May 2025)  
**Role:** Taught grades 5–9, promoted student engagement, simplified complex math topics
- **Shaudan Tech Group, Gujrat, Punjab, Pakistan** (Jun 2022 - Sep 2023)  
**Role:** Delivered reports using visualizations and data summaries as a remote Data Analyst.
- **Ali Science Academy, Gujrat, Punjab, Pakistan** (Jun 2018 - Mar 2020)  
**Role:** Prepared students for exams with a tailored teaching approach.

### Internships

- **Meissasoft, Lahore, Punjab, Pakistan** (May 2025 - Present)  
**Role:** Practiced OOP by building a Chess Game Engine and Ride Sharing Simulation. Solved DSA problems on HackerRank. Designed SQL databases and built a Student Management System using FastAPI and SQLAlchemy.
- **InsightSol Technologies, Lahore, Punjab, Pakistan** (Apr 2024 - May 2024)  
**Role:** Developed machine learning models using Python libraries as a remote ML Intern.

## Courses, Specializations and Training

- **National Vocational and Technical Training Commission, Government of Pakistan**
  - Course Title: **Artificial Intelligence (Machine Learning & Deep Learning)** (Jun 2023 – Dec 2023)  
Institute: **Minhaj University, Lahore, Punjab, Pakistan**
- **Coursera**
  - **Data Science Math Skills** (01 Jul 2024) – **Duke University**
  - **Introduction to Discrete Mathematics for Computer Science** (05 Dec 2023) – **UC San Diego**
  - **Understanding Research Methods** (12 Sep 2023) – **University of London**
  - **Introduction to Mathematical Thinking** (31 Aug 2023) – **Stanford University**
  - **Algebra: Elementary to Advanced** (31 Aug 2023) – **Johns Hopkins University**
  - **Expressway to Data Science: Essential Math** (08 Jul 2023) – **University of Colorado Boulder**

- **IELTS**  
Overall Band **7.0** (CEFR Level **C1**)  
➤ Listening **8.0**, Writing **6.5**, Speaking **6.0**, Reading **7.5**  
➤ Test Date: **16<sup>th</sup> September 2024**

### Skills

- **Skills and Tools:**  
Skills Acquired Through Courses and Internship  

➤ Python (NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, SQLAlchemy, Alembic, NLTK, TensorFlow/Keras) – Intermediate

➤ Machine Learning – Intermediate

➤ Deep Learning – Basic

➤ LaTeX (OverLeaf) – Basic

➤ SQL – Basic

➤ FastAPI (Uvicorn, Pydantic) – Basic

➤ Canva – Basic

➤ OOP – Intermediate

➤ DSA – Basic

➤ Anaconda (Jupyter Notebook) – Intermediate

➤ Microsoft Office (Word, Powerpoint) – Intermediate

➤ **Interpersonal Skills:**  
Skills Acquired Through Work and Studies  

➤ Communication – Good

➤ Time Management – Excellent

➤ Adaptability – Excellent

➤ Creativity – Excellent

➤ Leadership – Good

➤ Emotional Intelligence – Excellent
- ### Projects
- Performed these projects during my internship at Insightsol Technologies and as part of my Artificial Intelligence (Machine Learning & Deep Learning) course at NAVTTC.

➤ **House Price Prediction:** Compared 8+ regression models (linear/tree-based) using Python (Scikit-learn, Pandas)

➤ **Heart Disease Prediction:** Trained 4 classifiers (Logistic Regression, Random Forest) achieving 92% accuracy

➤ **Student Performance Analysis:** Multiple regression analysis ( $R^2=0.92$ ) with Pandas preprocessing

➤ **Brain Tumor Detection:** CNN model for medical image classification (TensorFlow/Keras)

➤ **Credit Card Fraud Detection:** Anomaly detection using Logistic Regression (Scikit-learn)

➤ **Breast Cancer Diagnostic:** SVM diagnostic classifier

➤ **Diabetes Classification:** Decision Tree prediction model

➤ **MNIST Digit Recognition:** ANN for MNIST dataset

➤ **CIFAR Image Classification:** CNN implementations for CIFAR-10/100 datasets

➤ **Career ChatBot:** API-integrated recommendation system

➤ **Chess Game Engine:** Designed a modular OOP-based chess engine in Python

➤ **Ride Sharing Simulation:** Simulated a basic Uber-like system using OOP with Driver, Rider, and Ride classes

➤ **Student Management System:** Created a CRUD-based web app using FastAPI and SQLAlchemy
- ### Languages
- **Urdu:** Listening (C2), Reading (C2), Speaking (C2), Writing (C1)

➤ **English:** Listening (C1), Reading (C1), Speaking (B2), Writing (B2)
- ### Extracurricular Activities
- During my studies, I participated in various societies to groom my personality and enhance my skills.

➤ Member – **Chawla Mathematics Society**, Government College University (GCU)  
➤ Participated in organizing mathematical seminars and workshops.

➤ Member – **Blood Donor Society**, Government College University (GCU)  
➤ Volunteered in blood donation drives and awareness campaigns.