MAZHAR ALI

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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

Objective

Motivated Computer Science undergraduate with strong foundations in **Python, Machine Learning, Data Analysis, and Deep Learning**. Skilled in building **CNN/ANN models, training pipelines, and end-to-end ML projects**. Seeking a **Machine Learning / Deep Learning Internship** to apply knowledge to real-world problems and grow professionally as a future **ML Engineer**.

Technical Skills

• **Programming Languages:** Python, C++, SQL

• **Machine Learning & Data Analysis:** Pandas, NumPy, Scikit-learn, EDA, Data Cleaning, Feature Engineering

• **Deep Learning:** Keras, TensorFlow, PyTorch, Convolutional Neural Networks (CNN), Artificial Neural Networks (ANN)

• **Databases:** SQL Server Management Studio (SSMS), Query Optimization

• **Tools & Environments:** Jupyter Notebook, Google Colab, VS Code, Git & GitHub

Experience

Machine Learning & Deep Learning Projects (Academic / Practical)

- Collected, cleaned, and preprocessed datasets for ML/DL models.
- Performed Exploratory Data Analysis (EDA) and built visualizations.
- Implemented ML algorithms (Regression, Classification, Clustering).
- Trained CNN/ANN models using **Keras and PyTorch** for image-based tasks.
- Wrote optimized SQL queries and managed relational databases.

Major Projects

Deep Learning & Computer Vision Projects

• **Blood Group Type Detection (DIP/ML Project)**
Developed a blood-type detection model using image processing techniques and ML classification.

• **Forgery Detection (Deep Learning – CNN)**
Built a CNN-based system to identify forged vs. genuine signatures/images.

• **Handwritten Digit Recognition (Deep Learning – MNIST)**
Implemented CNN using Keras/TensorFlow achieving high accuracy on MNIST dataset.

• **Brain Tumor MRI Classification (CNN – Medical Imaging)**
Trained a CNN model (EfficientNet/Epoch-based training) to classify MRI brain tumor images.

• **Vehicle Number Plate Detection (YOLO + OCR)**
Implemented a number plate detector using YOLOv8 and extracted text using Tesseract OCR.

Machine Learning Projects

• **Heart Disease Prediction** – Logistic Regression & Random Forest
• **House Price Prediction App** – Regression model + Streamlit UI
• **Iris Flower Classification** – ML basics with multiple classifiers
• **Stock Price Prediction** – Time-series data using ML models
• **Movie Recommendation System** – Content-based filtering
• **Hospital Management System (SQL)** – Schema design, triggers, stored procedures
• **Data Cleaning & Visualization Project** – Pandas, Matplotlib, Seaborn
• **Bank Management System (C++)** – OOP-based console application
• **Jarvis AI Assistant (Python)** – Speech recognition + TTS automation

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)*

Relevant Coursework

Data Structures & Algorithms | Database Management Systems
Object-Oriented Programming | Operating Systems
Machine Learning | Deep Learning Fundamentals