

# MUFASSIR IQBAL

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## Profile Summary

Curious and forward-thinking AI student with a strong foundation in Python, web development, and machine learning. Passionate about building practical, user-friendly digital solutions that integrate real-world AI applications.

## Education

Bachelor of Science in Computer Science | Kohat University Of Science & Technology (2022 – 2026)

CGPA: 3.72

Relevant Coursework: Generative AI, Data Structures & Algorithms, Machine Learning

## Skills

**Programming:** Python, C++, HTML, CSS, JavaScript

**Web Technologies:** PHP, MySQL, XAMPP, FastApi

**AI/ML:** Scikit-learn, Hugging Face, Generative AI, RAG

**Soft Skills:** Problem-solving, Communication, Teamwork

## Experience

### Machine Learning Intern – Ezitech Institute

14-Jul-2025 – 13-Oct-2025

**Location:** Onsite

- Assisted in building and optimizing machine learning models for real-world datasets.
- Conducted data preprocessing, feature engineering, and model evaluation using Pandas, NumPy, and Scikit-learn.
- Worked on projects involving classification, clustering, and NLP-based text analysis.
- Collaborated with a team to deploy models via Streamlit and integrate APIs for interactive use.

### **Selected Projects:**

#### **Image Classification using CNNs (CIFAR-10)**

- Built a Convolutional Neural Network (CNN) model using TensorFlow/Keras to classify 10 image categories.
- Applied data augmentation and dropout for regularization, achieving high validation accuracy.

#### **Cancer Detection using Deep Learning**

- Designed a deep CNN model for early cancer detection from image datasets.
- Improved detection accuracy using feature scaling and transfer learning (VGG16).

#### **Movie Sentiment Analysis**

- Developed an NLP model to classify movie reviews as positive or negative using TF-IDF and Logistic Regression.
- Experimented with LSTM for sequence-based sentiment prediction.

#### **Rice Plant Disease Detection**

- Trained a CNN to identify and classify rice leaf diseases from agricultural datasets.
- Integrated visualization dashboard for detection results using Streamlit.

#### **AI-Powered Cold Email Generator (LangChain + ChromaDB)**

- Built an AI-driven email generator integrating LangChain, ChromaDB, and Streamlit.
- Designed embeddings-based memory retrieval to personalize emails dynamically.

#### **Customer Segmentation using K-Means Clustering**

- Implemented unsupervised learning to segment customers based on purchasing patterns.
- Evaluated optimal cluster number using the Elbow Method and Silhouette Score.

#### **Feature Optimization with Recursive Feature Elimination (RFE)**

- Used RFE to optimize feature subsets for classification tasks.
- Achieved performance improvement by reducing model overfitting and computational cost.

## **Web Developer**

### **Self-directed projects**

- Built a web-based **contact manager** using HTML, CSS, JavaScript, PHP, and MySQL.
- Designed a basic system to manage books, users, and borrowing records.

## DSA Student

### Self-directed learning

- Learning and applying concepts in data structures and algorithms Studied core concepts like arrays, linked lists, stack, sorting, and searching in Data Structures and Algorithms.
- Gained foundational knowledge of Data Structures and Algorithms, including arrays, linked lists, stacks, sorting, and searching techniques.
- Strengthened problem-solving skills with practical exercises. Achieved proficiency in 7 key data structures and 5 algorithm techniques by self-directed study and application.

## Python Projects

- **Expense Tracker** – A Python tool using CSV/SQLite to track and analyze expenses.
- **Weather App** – Fetched real-time weather data using the OpenWeatherMap API.
- **Chatbot** – Built a simple conversational AI bot using NLTK.
- **Image Classifier** – Implemented a digit classifier on the MNIST dataset using TensorFlow/Keras.
- **Book Recommender** – Developed a Book Recommendation System leveraging ML techniques.
- **Job Scraper** – Scraped job listings and stored them in a database.

## Hackathon Projects

### Pak Angles GenAi hackathon

- **Clarimeet** – Created a Meeting Summarizer using Hugging Face Transformers. Take videos and audios and generate the summary and again generate the audio of summary File.

### Lablab.ai Internet of Agent hackathon

- **LeetAgent** – An agent that can analyses GitHub repo and suggest the next problem to user by sending daily email and also manage the readme file accordingly.

### Uraan AI Techathon 1.0 (E-Pakistan Initiative, 2025)

- **ParaLink** – An Ai powered Solution for paralyzed people to interact with caretaker and control home appliances.

## Certifications

Machine Learning interne – Ezitech institute 2025

Generative Ai application developer – Pak Angles 2025

Machine learning with Scikit-learn – DeepEmbed Lab 2025

Participant — Internet of Agents Hackathon (Lablab.ai, 2025)

[Certifications Link](#)

