

Fakhar Zaman

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EDUCATION

Comsats University Islamabad

Bachelor of Science in Computer Science

Cgpa: 3.65/4.00

Islamabad, Pakistan

Sept. 2022 – June 2026

PROJECTS

AI-Driven Tomato Care | *Python, Flask, TensorFlow/Keras, OpenCV, PostgreSQL*

Spring 2026

- Developed an AI-powered web application for automated tomato leaf disease detection using a Convolutional Neural Network (CNN).
- Integrated TensorFlow/Keras and OpenCV for image preprocessing, validation, and disease classification, achieving **96.73% validation accuracy**.
- Implemented secure user authentication, email OTP verification, scan history, dashboard analytics, and PostgreSQL database integration.
- Designed disease-specific recommendation and feedback modules to assist users after prediction.

Twitter Sentiment Analysis System | *Python, Flask, NLTK, Scikit-learn*

Spring 2024

- Built an NLP-based web application for sentiment analysis of tweet-style text using Python and Flask.
- Applied text preprocessing techniques including regular expressions, stopword removal, stemming, and TF-IDF feature extraction.
- Implemented Logistic Regression and Naïve Bayes classifiers to predict positive and negative sentiment with confidence scores.
- Integrated a user feedback module to support prediction evaluation and future model improvement.

Mini Market Management System | *C#, .NET Framework, SQL Server*

Fall 2024

- Developed a desktop-based mini market management system for inventory, sales, customer, and billing management.
- Implemented role-based authentication, CRUD operations, invoice generation, and SQL Server database integration.
- Designed an intuitive interface to improve business operations and transaction management.

TECHNICAL SKILLS

Languages: Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R, C sharp

Frameworks: Flask, .Net, Sql Server, PostGreSql, SqlLite, jinja2, Windows Forms

Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm, RStudio

Software Development: Data Structures and Algorithms, RESTful API Development, HTML5, CSS3, Bootstrap, Git, Github and Version Control

Libraries: Numpy, Pandas, Tensorflow/keras, OpenCV, Scikit-Learn, Seaborn, Matplotlib, Tkinter, Turtle, Flasklogin, Werkzeug, TF-IDF, NLTK

CERTIFICATIONS AND AWARDS

- IBM Data Science Orientation – Coursera
- Agentic AI and AI Agents: A Primer for Leaders – Vanderbilt University (Coursera)
- 100 Days of Code: Python Bootcamp – Udemy
- Full Stack Web Development (MERN Stack) – Udemy

ACHIEVEMENTS

- Developed a CNN-based tomato leaf disease detection system achieving **96.73% validation accuracy**.
- Built AI-powered web applications integrating Machine Learning, Computer Vision, and Natural Language Processing.