

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

PROFESSIONAL SUMMARY

Computer Science graduate with a strong interest in Artificial Intelligence, Computer Vision, and Data Science. Experienced in developing deep learning applications using Python, TensorFlow/Keras, OpenCV, and Flask through academic projects. Passionate about solving real-world problems with AI and eager to contribute to innovative research and software development teams.

PROJECTS

AI-Driven Tomato Care System | *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) with 96.73% validation accuracy.
- Integrated TensorFlow/Keras and OpenCV for image preprocessing, validation, and disease classification
- 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.
- GitHub: github.com/fakharzamankhan/AI-Driven-Tomato-Leaf-Disease-Detection-System

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.

DemandLens: Explainable Retail Demand Forecasting and IF | *Python, LightGBM, SHAP* Spring 2026

- Developing an end-to-end data science platform using historical retail sales, pricing, and calendar data to forecast product demand.
- Building data preprocessing, exploratory analysis, feature engineering, and time-series model evaluation pipelines to identify sales trends and seasonal patterns.
- Integrating model explainability and inventory optimization to translate demand forecasts into interpretable business insights and replenishment recommendations.

TECHNICAL SKILLS

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

AI and Machine Learning: TensorFlow, Keras, OpenCV, Scikit-learn, NLTK, NumPy, Pandas, Matplotlib, LightGBM, SHAP

Frameworks: Flask, .Net, SQLAlchemy, Jinja2, Windows Forms

Databases: PostgreSQL, SQL Server, SQLite, MySQL

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

CERTIFICATIONS AND AWARDS

- IBM – What is Data Science? (2026)
- Agentic AI and AI Agents – Vanderbilt University (2026)
- 100 Days of Code: Python Bootcamp – Udemy(2025)
- Full Stack Web Development (MERN Stack) – Udemy(2024)