Fareha

Full Stack & AI Developer | Software Engineering Student

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Profile

I am a passionate Software Engineering student focussed on Deep Learning, GenAI, and Computer Vision. I am dedicated to leveraging AI technologies to solve real-world problems and continuously improve through competitive programming and hands-on projects

Education

Bachelors of Software Engineering, *Punjab University College of Information Technology* Dec 2022 – present
Currently enrolled in 8th semester, with a CGPA of **3.76**

Experience

Freelance Full Stack Developer, *Alpha Freight Lines* Present
Remote

- As a .NET and Angular Developer**,** developing a real-time shipment tracking dashboard for a global supply chain company. The system monitors the movement of goods across countries, integrating data from supplier websites to automatically extract and update shipment details.
- Implementing real-time location tracking with interactive map visualizations, enabling users to monitor shipment status, routes, and delivery progress efficiently. The platform enhances supply chain visibility, streamlines logistics operations, and supports data-driven decision-making through automated updates and analytics.

AI Intern | Computer vision and deep learning, *EWS (Hybrid)* Aug 2025 – Dec 2025
Lahore, Pakistan

- I contributed on an AI-based Computer Vision Fall Detection project, developing a complete data-to-model pipeline involving pose estimation, feature engineering, and graph-based deep learning.
- I performed data preprocessing and noise reduction using YOLO for human detection and background removal, followed by AlphaPose for skeletal keypoint extraction.
- I engineered spatial-temporal features to capture human motion dynamics and implemented a Spatial Temporal Graph Convolutional Network (ST-GCN) to model joint relationships over time. Through model optimization and hyperparameter tuning, the system achieved 86% accuracy on unseen data, demonstrating strong performance for real-time safety and monitoring applications.

Freelance Frontend Developer, *Upwork* Aug 2025 – Nov 2025
Lahore,Pakistan

- Built and deployed a responsive portfolio website using React.js, Tailwind CSS, React Router, and ShadCN for animations, showcasing interactive UI and smooth navigation.

Private Programming Tutor – O Level Student, *Private (Remote)* Aug 2024 – Dec 2024

- Taught an O Level student Python and C++ , focusing on problem-solving and core programming concepts.

OOP-Teaching Assistant, *PUCIT* Sep 2024 – Jan 2025

- Managed assessments and helped students with lab tasks in C++ language.

PF-Teaching Assistant, *PUCIT* May 2023 – Dec 2023

- Supported in teaching Programming Fundamentals with C language as a Teaching Assistant.
- Assissted students in lab tasks.

Projects

IntelliHire — AI-Powered Platform to Automate and Facilitate the Hiring Process, Sep 2025 – Present
Final Year Project|(React.js,Node.js, WebRTC,Mistral 7B (LLM), ElevenLabs(TTS) Deepgram(STT), Vector DB, Docker)

- Developing an AI-driven interview assistant capable of conducting real-time, voice-based technical interviews using LLMs, NLP, and computer vision. The system integrates Speech-to-Text (STT), Text-to-Speech (TTS), and LLM-based dynamic question generation to simulate a realistic, human-like interviewer.
- It extracts contextual information from candidate resumes using Retrieval-Augmented Generation (RAG), generates tailored interview questions with a fine-tuned Mistral model, and converts them into natural speech for interactive communication.
- Candidate responses are transcribed, analyzed, and evaluated for content relevance, tone, and expressions, producing a structured recruiter report for objective and scalable hiring. The model was fine-tuned using Mistral, optimized with Unsloth for efficient inference, and deployed locally on Ollama for secure, high-performance execution.

Image Classification Aug 2025 – Aug 2025

- Built a CNN-based model using TensorFlow and Keras to classify images of cats and dogs, including data preprocessing, model training, and evaluation.

Predictive Text Generation Model Aug 2025 – Aug 2025

- Built an LSTM-based model using TensorFlow and Keras to predict the next word in a sentence. Implemented tokenization, sequence padding, and one-hot encoding, achieving sequential word prediction from a trained text corpus.

Social Networking System (ASP.NET Core MVC, Entity Framework Core, SignalR, SQL Server) Apr 2025 – May 2025
- Built a secure and scalable social networking web application using ASP.NET Core MVC. Utilized Entity Framework Core with SQL Server for robust data handling, integrated SignalR for real-time interactions, and implemented ASP.NET Identity for user authentication.
- Applied policy-based authorization and dependency injection to ensure a modular, maintainable, and role-secure architecture.

Blog Management System (Java) Jan 2025
- A web application for blog management, enabling admins to add and delete blogs, users to add, delete, view, and comment on blogs with secure session management

Skills

- Python
- LLM Integration
- Ollama
- Tensorflow
- React Js
- ADO.net
- ORM (Entity Framework Core)
- Machine Learning
- PyTorch
- Deep Learning
- Problem Solving
- HuggingFace
- LangChain
- Vector Database
- Computer Vision
- C# and .NET Core

Courses

Supervised Machine Learning: Regression and Classification, *Coursera* Jul 2025 – Aug 2025
- Gained hands-on experience in building and training supervised machine learning models using Python, NumPy, and scikit-learn.
- Implemented linear regression and logistic regression models for prediction and binary classification tasks.

HTML, CSS and Javascript for Web Developers, *Coursera* Sep 2023 – Oct 2023
- Basics of HTML , CSS , Javascript and Bootstrap

Basics of Data Structures and Algorithms, *Coursera* Oct 2023 – Nov 2023
- Implementation of all data structures including linked lists , stack, queue , heaps, hashing, binary tree, and binary search trees. Enhancing problem solving and thinking skills.

Achievements

CodeBees5.0 - Open House Female Programming Competition, *FDC - PUCIT* Nov 2025
Got 2nd rank among 50+ teams.

DPSPDC 2025 Final Round, *Ignite* Jul 2025
Got the 30th rank among top 60+ teams

DPSPC 2025 - Online Round, Ignite, *Ignite* Jun 2025
Solved 5 problems out of 9 - Ranked 21

ICPC Asia Topi Regional On-site Contest, *ICPC Global* Feb 2025
Participated along with 70+ teams

ICPC Asia Topi Online Preliminary Programming Contest, *ICPC Global* Sep 2024
Solved 6 Problems out of 9 , Ranked 30

Techon 1.0 - Online speed programming competition, *Tech Involvers* Jun 2024
Got 2nd rank amomng 20+ teams

CodedBees3.0 - Open House Female Programming Competion, *GDSC - PUCIT* May 2024
Got 2nd rank among 40+ teams

Speed Programming Competition, *PUCON'23 - PUCIT* Jun 2023
Won Prize for Top Female Team with 7th rank

Codefest4.0 - Inter University Programming Competition, *GDSC - PUCIT* Dec 2023
Got 11th rank on Leaderboard among 70+ teams

CodeBees 2.0 - Open House Female Programming Competition, *GDSC - PUCIT* Dec 2023
Stood at the top of the leaderboard, got the 1st rank among 50+ teams

CodeBees1.0 - Female Programming Competition, *GDSC - PUCIT* Apr 2023
Got 2nd rank among 30+ teams

Contributions

Management Head , UI/UX Competition - PUCON'25, *PUCIT* May 2025
- Played a key role in managing event dynamics, engaging with participants, faculty, and judges to successfully execute a university-wide UI/UX competition.

Online Speed Programming Cometition - Decthon 2025, *Decentral Developers* Jan 2025
- Crafted Problemset and judged the competition
- 60+ teams participated