



# Anam Fatima

## AI Engineer & Full-Stack Developer

AI Engineer and Full-Stack Developer with experience in machine learning pipelines, deep learning, and RESTful API development. Skilled in MERN/MEAN stacks and biomedical ML research, seeking to utilize my technical and research skills in a challenging AI role.

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## EDUCATION

### Bachelor of Science in Computer Science

Namal University Mianwali

Sep 2022 - Jun 2026 | 3.96 CGPA

### AI Powered Virtual Medical System - Speridian Technologies

SaaS platform automating routine patient support through an AI chatbot handling appointments, medical report analysis, and insurance queries using text and audio, and video. Provides role-based dashboards for patients, doctors, and admins created using MEAN stack.

## WORK EXPERIENCE

### Teaching Assistant — Data Structures and Algorithms

Namal University

Sep 2025 - Jan 2026 | Mianwali, Pakistan

#### Accomplishments / Tasks

- Conducted weekly lab sessions for 30+ students covering data structures, algorithms, time-space complexity and recursion; evaluated assignments and provided structured feedback.

#### Contact Person

Mr. Abdul Rafay | abdul.rafay@namal.edu.pk

### Software Engineering Intern

Speridian Technologies

Jul 2025 - Sep 2025 | Multan, Pakistan

#### Accomplishments / Tasks

- Developed 5+ RESTful APIs and Angular frontend components in C#/ASP.NET within an Agile team, reduced data retrieval time through optimised SQL queries and maintained clean architecture compliance across code reviews.

### Teaching Assistant — Quantitative and Computational Reasoning (Python)

Namal University

Sep 2023 - Jan 2024 | Mianwali, Pakistan

#### Accomplishments / Tasks

- Guided 25+ students in Python-based problem-solving and logical reasoning through weekly lab sessions.

#### Contact Person

Mr. Adnan Bashir | adnan.bashir@namal.edu.pk

## PUBLICATIONS

### Machine Learning-Based Classification of SARS-CoV-2 Structural Proteins Using Amino Acid Composition

Journal of Computing & Biomedical Informatics

Published: March 01, 2026

## SKILLS

Programming Languages: Python, JavaScript, TypeScript, C++, Java, SQL

AI / ML: TensorFlow, LangChain, Hugging Face, Deep Learning, Neural Networks, RAG Systems, NLP

Frameworks: MERN, MEAN, Flask, ASP.NET, Angular, Node.js

Tools: Power BI, Postman, VS Code, Burp Suite, Git Bash

Methodologies: Agile, API Development

Databases: MySQL, MongoDB

## PROJECTS

### PDF Chatter

#### Retrieval-Augmented Generation

A RAG-based chatbot created using LangChain and Pinecone that reduced PDF review time by almost 80% allowing users to extract answers from the PDF documents in seconds.

### MCQ Generator using Hugging Face

#### Natural Language Processing

An NLP-powered tool that instantly generates customisable multiple-choice questions from any text using Hugging Face models and LangChain.

### Local Mart

#### Full-Stack Development (MERN)

A responsive full-stack e-commerce platform helping local vendors reach buyers online with secure JWT-authenticated APIs.

## CERTIFICATES

### Machine Learning

Coursera

Oct 2023

### Python Data Structures

Coursera

Aug 2023

## ACHIEVEMENTS

### Lead Organiser — Inter-University CODEX 2025

Vice President, Namal Computing Society

### 3rd Place in VisioSpark Technical Competition

COMSATS