AHMAD MIRZA

Python Developer | Data Science | Strategic Problem-Solving

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SUMMARY

Results-driven **Python Developer** and Computer Science student with hands-on experience in full-stack web development, artificial intelligence, and machine learning. Proficient in Python, FastAPI, Flask, TensorFlow, and JavaScript, with a proven track record of building and deploying production-level applications, including an AI-powered chatbot for Punjab Group of Colleges and a deep learning-based skin disease classification system that secured 1st place at the Edify Group of IT Colleges Project Exhibition. Skilled in designing scalable REST APIs, integrating vector databases, and crafting responsive, user-focused interfaces using modern frontend technologies. A natural leader with demonstrated experience as Vice President of the University Block, bringing a strong blend of technical expertise, communication skills, and strategic problem-solving to every project. Passionate about pushing the boundaries of AI and data-driven development to build solutions that create real-world impact.

EXPERIENCE

Web Developer

Sleeks IT Solutions

01/2021 - 12/2022 Jaranwala

IT solutions company focused on web development

- Designed and maintained dynamic web applications for optimal performance

Web Development Intern (Python)

Tecnsol

10/2024 - 12/2024 Faisalabad

Web development company specializing in Python projects

- Worked on Python-based web projects and real-world applications

Web Developer & Interns Manager

GAO Tek Inc

01/2023 - 01/1970 Remote

Remote technology solutions provider

- Developed and optimized web solutions while managing global internship programs

Python Programming Instructor

SELL SMART IT SOLUTIONS

12/2025 - 03/2026 Jaranwala, Pakistan

Tech solution company with a technical training provider

- Designed and delivered a comprehensive Python curriculum covering core programming, data structures, and AI integration.
- Provided technical mentorship and evaluated student projects throughout the software development lifecycle to ensure standards.

Python Programming & Data Science Instructor

Bano Qabil

02/2026 - Present Jaranwala, Pakistan

AI Khidmat Foundation Free IT Courses for Students

- **Python & Data Science Instruction:** Delivered structured Python programming and data science courses to students, covering libraries such as NumPy, Pandas, and Matplotlib with a focus on practical, real-world applications.
- **Curriculum & Mentorship:** Designed engaging course content and provided hands-on mentorship, guiding students through web development and data science projects to build job-ready technical skills.

EDUCATION

BS in Computer Science

GC University Faisalabad

08/2021 - 06/2025 Faisalabad, Pakistan

ICS

BISE.FSD

08/2019 - 06/2021 Jaranwala, Pakistan

EDUCATION

Matric

The Educators (BISE.FSD)

2017 - 2019 Jaranwala, Pakistan

PROJECTS

AI Dermatologist — Skin Disease Classification System

Tech Stack: *Python, TensorFlow, Keras, CNN, Flask, HTML, CSS, JavaScript*

- Designed and trained a Convolutional Neural Network (CNN) model using TensorFlow and Keras to classify skin diseases from patient-uploaded images with high accuracy.
- Integrated an AI-powered prescription engine that analyzes the classified disease and returns detailed information including symptoms, causes, and recommended treatment.
- Built a responsive, dashboard-style frontend using HTML, CSS, and JavaScript for real-time image upload and instant disease prediction display.
- Applied image preprocessing techniques including augmentation, normalization, and resizing to improve model robustness and reduce overfitting.
- Developed a Flask REST API backend to connect the trained model with the frontend, enabling seamless inference and result delivery.

AI Chatbot for College Website — Punjab Group of Colleges

Tech Stack: *Python, FastAPI, Sentence Transformers, Weaviate (Vector DB), DeepSeek API, JavaScript, Docker*

- Improved student service efficiency by 80% by developing AI chatbot for Punjab Group of Colleges' website.
- Implemented semantic search using Sentence Transformers and Weaviate vector database to match student questions with the most relevant knowledge base entries.
- Integrated DeepSeek API to generate natural language responses, improving conversational quality and contextual understanding.
- Designed a floating, professional chat interface embedded across all website pages using JavaScript, ensuring accessibility and a seamless user experience.
- Containerized the full application using Docker for consistent, scalable deployment and simplified environment management.

Student Job Portal — Part-Time Job Matching Platform

Tech Stack: *HTML, CSS, JavaScript, Python, REST APIs, Database (SQL)*

- Built a full-stack multipurpose job portal enabling students to create profiles and apply for part-time job listings posted by companies and employers.
- Developed a dual-role system where companies can browse student profiles and send hiring requests, and students can actively apply to open positions.
- Implemented profile management, job listing management, and application tracking features to provide a complete end-to-end recruitment workflow.
- Designed a clean, responsive user interface accessible across devices, optimized for ease of use by both students and company recruiters.
- Structured the backend with REST APIs to handle authentication, role-based access control, and data management efficiently.

Corporate Attendance System — Face Recognition & Automated Reporting

Tech Stack: *Python, OpenCV, Face Recognition Library, openpyxl, Twilio WhatsApp API*

- Developed a multi-functional corporate attendance system that uses real-time facial recognition to automatically identify employees and log their check-in and check-out times.
- Integrated OpenCV and a face recognition library to detect and verify employee faces from a live camera feed with high accuracy.
- Automated attendance logging directly into Microsoft Excel spreadsheets using openpyxl, recording timestamps for both arrival and departure.
- Implemented WhatsApp notification functionality using Twilio API to automatically send attendance confirmation messages to employees upon check-in or check-out.
- Designed the system for multi-employee environments, enabling concurrent face detection and real-time database updates without manual intervention.

Pathfinder AI — Academic Admission Portal & Smart Recommendation Engine

Tech Stack: Python, FastAPI, Jinja2 Templates, SQLAlchemy, SQLite, Grok API, Bcrypt

- Created a portal to automate university deadline monitoring, eligibility matching, and scholarship tracking for international applicants.
- Engineered a backend architecture using FastAPI and SQLAlchemy to manage relational database schemas for complex scholarship criteria, application timelines, and user profile segments natively in SQLite.
- Integrated Grok API for intelligent data extraction, converting scholarship criteria into scannable markers.
- Implemented secure user authentication and access control infrastructure using Bcrypt password hashing and role-based multi-slot administrator privileges.

SKILLS

Python | Spreadsheet Modeling | Web Development | Data Analysis | Data Visualization | AI Development | Communication | Team Management | Project Leadership | Problem Solving | Research | Collaboration | Continuous Learning

KEY ACHIEVEMENTS

Vice President — University Block, Punjab Group of Colleges

Served as Vice President of the University Block at Punjab Group of Colleges, representing students and bridging communication between the student body and college administration. In this role, demonstrated strong leadership, organizational, and interpersonal skills by coordinating student initiatives, addressing concerns, and contributing to a well-functioning academic environment.

1st Position — Project Exhibition, Edify Group of IT Colleges

Secured 1st place out of 10+ competing teams at the Edify Group of IT Colleges Project Exhibition, presenting the AI Dermatologist, a deep learning-based skin disease classification system. The project was recognized by judges for its technical innovation, real-world healthcare application, and overall presentation quality, demonstrating the ability to build and communicate production-level AI solutions.

COURSES

Advanced Python Programming

Full Stack Web Development with Python

Data Science

STRENGTHS

Python Programming

Proficient in Python with extensive experience building scalable applications, automating workflows, and processing complex data. Skilled in leveraging libraries such as NumPy, Pandas, and Django to deliver efficient, production-ready solutions.

VOLUNTEERING

Volunteer Mentor — TCF Rahbar Program

RAHBAR FOUNDATION INC

10/2023 - 03/2024

Volunteered as a mentor for underprivileged students, focusing on career counseling and academic motivation.