

# Muhammad Adam Khan

Python Developer | AI/ML Engineer | Generative AI Enthusiast

✉ adamkhan000@gmail.com    ☎ +92 304 4556632    📍 Lahore, Punjab, Pakistan

🐙 github.com/M-Adam-Khan    🔗 linkedin.com/in/m-adam-khan

## Summary

I'm an aspiring AI/ML engineer with a strong foundation in Python and hands-on experience building real-world AI projects. Curious by nature, I'm passionate about exploring the future of technology through agentic systems and full-stack development.

## Education

<b>Bachelor of Science in Artificial Intelligence, CGPA: 3.48,</b> <i>University of Management and Technology – Lahore, Pakistan</i>	11/2021 – 08/2025 Lahore, Pakistan
<ul style="list-style-type: none"><li>• Dean's Merit Award Holder</li><li>• Key Courses: AI, ML, DL, NLP, AI Ethics, CV, Data Structures</li></ul>	
<b>Intermediate in Mathematics and Statistics, Grade: A+ (965/1100),</b> <i>Punjab Group of Colleges – Lahore, Pakistan</i>	08/2020 Lahore, Pakistan
<b>Matriculation, Grade: A+ (935/1100),</b> <i>Lahore Model School – Lahore, Pakistan</i>	08/2018 Lahore, Pakistan

## Experience

<b>Intern, Inter Services Public Relations (ISPR), Pakistan Army</b>	07/2024 – 08/2024 Lahore
<ul style="list-style-type: none"><li>• Researched secure AI-powered communication systems for defense applications</li><li>• Analyzed emerging trends in national security and strategic tech communication</li></ul>	

## Projects

### Eagle Wings – Autonomous Drone System

- Implemented **face detection** and **object tracking** using OpenCV and deep learning
- Designed **autonomous navigation** and **self-charging** capabilities
- Integrated **voice-controlled chatbot** using Python and AIML

**Tech Stack:** Python, OpenCV, Deep Learning, AIML

### BloodLine – Smart Donor-Patient Matching System

- Built a **supervised ML model** (Random Forest) to assess **donor eligibility** with 92% accuracy
- Developed a **full-stack web app** with Flask (backend) and HTML/CSS/JavaScript (frontend)
- Implemented **donor and patient registration**, storing and linking data using Neo4j
- Integrated a **custom chatbot** using AIML for user queries and interaction

**Tech Stack:** Python, Machine Learning, Flask, Neo4j, AIML, HTML/CSS/JS

### Newsletter AI Agent – Research, Write & Proofread Tool

- Designed an agentic AI system that **researches, writes, and proofreads articles** from a single-topic prompt
- Integrated **Grok API** for web search and real-time content gathering
- Used **LangChain** and **LangGraph** for multi-step agent orchestration and reasoning
- Developed backend using **FastAPI** to serve content and handle user input

**Tech Stack:** Python, Grok API, LangChain, LangGraph, FastAPI

## Skills

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### Languages

Python, SQL

### Frameworks

Flask, Django, FastAPI

### Tools

Git, VS Code, Google Colab

### Libraries

NumPy, Pandas, Scikit-learn, OpenCV, TensorFlow, Keras

### Databases

MySQL, Neo4j

### Other

Prompt Engineering, Hugging Face, AIML

## Leadership & Activities

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### Student Member - AI Society

2021 – Present

- Participated in AI workshops.
- Participated in Live Sessions regarding Emerging Technologies