

Ekrash Zahid

Date of birth: 03/12/2003 | **Place of birth:** Rahem yar khan, Pakistan | **Nationality:** Pakistani | **Gender:** Male |

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● ABOUT ME

I'm Ekrash Zahid, a passionate Software Engineer with expertise in Machine Learning, Data Science, FastAPI, and Flask. I specialize in building intelligent and scalable applications by leveraging advanced data-driven techniques and modern web frameworks. With a strong foundation in both backend development and machine learning, I deliver efficient solutions that drive impactful results.

● WORK EXPERIENCE

 **SMART GRADE AI – LAHORE**

AI ENGINEER INTERN – 10/06/2025 – CURRENT

Designed and implemented a Retrieval-Augmented Generation (RAG) pipeline using LangChain, integrating LLM with a custom document retrieval system for accurate, context-aware responses.
Developed and deployed a FastAPI-based backend to serve RAG models as RESTful APIs, ensuring low-latency and scalable inference.
Integrated vector databases for efficient document embedding storage and semantic search.

 **GAOTEK INC**

MACHINE LEARNING ENGINEER INTERN – 01/10/2024 – 03/06/2025

Design, develop, and deploy machine learning models for real-world applications.
Perform data collection, preprocessing, and feature engineering to improve model performance.
Implement training, evaluation, and optimization of models using frameworks like TensorFlow .

 **UMT – LAHORE, PAKISTAN**

TEACHER ASSISTANT – 03/03/2025 – CURRENT

I am currently working as a Teaching Assistant (TA) for the Object-Oriented Programming (OOP) course, where I support both instructors and students in understanding core programming concepts. My responsibilities include conducting lab sessions, assisting students with coding assignments, and explaining key OOP principles such as inheritance, polymorphism, encapsulation, and abstraction.

● SKILLS

Machine learning | Data Science | Python | Numpy | Pandas | Python(flask,fastapi)

● PROJECTS

08/10/2024 – 05/02/2025

RAG TEACHER AI CHAT BOT

Built an **AI-powered Teacher Assistant chatbot** using **LangChain** and **FastAPI** that analyzes student performance and provides personalized learning insights. Integrated a **Retrieval-Augmented Generation (RAG)** pipeline with **vector search** for context-aware responses and performance feedback generation.

Link <https://github.com/Ekrashzahid123/RAG-Teacher-s-Ai-Assistant>

06/09/2023 – 08/06/2024

AI IMAGE CLASSIFICATION SYSTEM

Developed a full-stack AI image classification web application using Flask, which allows users to upload images and receive real-time predictions generated by a trained convolutional neural network. Designed the backend API managed

preprocessing integrated model inference with Python, and implemented user authentication and upload tracking for secure usage.

Link <https://github.com/Ekrashzahid123/AI-Image-classification-system-With-flask>

08/03/2025 – 28/07/2025

OBJECT DETECTION FLASK PROJECT

Real-time object detection web app built with Flask and powered by the cutting-edge TensorFlow.js COCO-SSD model! The COCO-SSD model is a fast, accurate pre-trained deep learning model that detects everyday objects like people, bottles, and cars in real time right in your browser.

Link https://github.com/Ekrashzahid123/object_detection_flask-project