

ASAD ULLAH

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PROFESSIONAL SUMMARY

AI/ML Engineer with hands-on experience designing end-to-end AI systems across Computer Vision, Machine Learning, Generative AI, and AI Agents. Skilled in building production-style applications spanning image classification, object detection, LLM fine-tuning, Retrieval-Augmented Generation (RAG), and workflow automation. Proficient in TensorFlow, PyTorch, Hugging Face, LangChain, OpenCV, and n8n, with a track record of translating business problems into practical, deployed AI solutions.

EDUCATION

University of Agriculture

Bachelor of Science in Computer Science

Peshawar, Pakistan

Graduated 2016

EXPERIENCE

SOMS Media

Project Manager

Pakistan

November 2025 – February 2026

- Managed AI automation and digital transformation projects from planning through deployment, coordinating cross-functional teams across marketing, development, and creative operations.
- Worked directly with clients to gather requirements and translate business problems into technical, automated solutions.

DevelopersHub Corporation

AI/ML Engineering Intern

Remote

April 28 – June 9, 2026

- Fine-tuned a BERT model for multi-class news topic classification, achieving 91.1% validation accuracy.
- Built an end-to-end Scikit-Learn churn-prediction pipeline and a LangChain support-ticket classifier comparing zero-shot vs. few-shot prompting.

Arch Technologies

Generative AI Intern

Remote

April 1 – May 30, 2026

- Fine-tuned DeepSeek R1 Distill Llama 8B using Unsloth and QLoRA on a medical reasoning dataset.
- Built a speech-to-text pipeline (Whisper + DeepSeek-R1) and a privacy-focused local chatbot using Ollama and Llama 3.1.

Elementary & Secondary Education Department, Government of KP

Primary School Teacher

Pakistan

2016 – 2025

- Taught Mathematics and Science, planning and delivering engaging classroom instruction for primary students.
- Evaluated student progress and maintained academic records; developed strong communication and leadership skills.

SELECTED AI PROJECTS

Concrete Crack Detection — Classification, Object Detection & Segmentation

Python, TensorFlow, PyTorch, YOLOv8, MobileNetV2, Gradio

- Built a MobileNetV2 feature-extraction pipeline achieving 99.75% test accuracy on crack classification.
- Fine-tuned YOLO models for crack localization and semantic segmentation on 3,300+ road and bridge images.

Accousistant — AI Receipt Processing & Expense Automation

n8n, Webhook, OpenAI GPT-4o (Vision), Google Sheets, Google Drive

- Built a webhook-triggered pipeline that OCRs receipt images via GPT-4o Vision into structured accounting records.
- Automated Google Drive storage and synced records into Google Sheets, eliminating manual data entry.

Customer Support AI Agent (RAG)

n8n, OpenAI GPT-4.1 Mini, Supabase, LangChain

- Designed a support workflow that classifies Gmail requests, retrieves context from a Supabase vector store, and drafts responses.
- Integrated Telegram notifications and automatic Gmail draft creation for the support team.

SKILLS & INTERESTS

Languages: Python, SQL, JavaScript (Basic)

ML / DL: TensorFlow, PyTorch, Keras, Scikit-learn, XGBoost, Pandas, NumPy

Computer Vision: OpenCV, YOLOv8, MobileNet, Image Classification, Object Detection, Semantic Segmentation

Generative AI: Hugging Face, LangChain, RAG, LLM Fine-Tuning, LoRA/QLoRA, Prompt Engineering, Ollama, Whisper

Automation & Agents: n8n, LangChain Agents, Supabase, Google/Gmail/Facebook APIs

Tools: Streamlit, Gradio, Git/GitHub, Google Colab, Jupyter Notebook, Weights & Biases

Certifications: Deep Learning Specialization (DeepLearning.AI) • Google AI Essentials • Google Prompting Essentials