

# USAMA AHMED

## Artificial Intelligence Engineer

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### PROFESSIONAL SUMMARY

Seeking a challenging AI Engineer position to leverage extensive expertise in machine learning, deep learning, and production-scale AI deployment. Committed to architecting innovative AI solutions that transform complex business challenges into automated, intelligent systems while driving organizational growth through cutting-edge technology integration and scalable infrastructure development.

### TECHNICAL SKILLS

<b>Programming Languages:</b>	Python, Bash
<b>Cloud &amp; DevOps:</b>	AWS (Lambda, S3, EC2, ApiGateway), Git, Docker
<b>Databases:</b>	MongoDB, PostgreSQL, Pinecone, Qdrant, ChromaDB, DynamoDB, Neo4j
<b>API Development:</b>	Flask, Fast Api, Django Rest Framework, Streamlitapp
<b>Tools &amp; Platforms:</b>	Jira, VAPI, N8N, Make.com, GoHighLevel

### EDUCATION & CERTIFICATION

**BACHELOR OF SCIENCE IN COMPUTER SCIENCE**  
UNIVERSITY OF HARIPUR | 2020-2024

- AWS AMAZON BEDROCK
- MACHINE LEARNING
- PYTHON PROGRAMMING

### PROFESSIONAL EXPERIENCE

**AI Engineer | AIOBC, DHA Phase-1, Rawalpindi | July 2024 - Present**

- Architected enterprise grade LLM chatbots with vector embeddings and multi-modal document intelligence capabilities.
- Engineered AI driven communication systems integrating Twilio APIs, STT/TTS technologies for automated workflows.
- Developed generative AI applications including dynamic visiting card generators using advanced computer vision models.
- Transformed ML prototypes into production APIs through scalable pipeline architecture and deployment optimization.
- Built real time fraud detection system (914AI) for Shopify with anomaly detection and risk scoring algorithms.
- Trained deep learning models for medical imaging achieving precise brain tumor segmentation and volumetric analysis from MRI data.

**Junior AI Engineer | Smart Document AI | March 2023 - June 2024**

### PROJECTS

**Kadastra.ai:**

- Architected AI-powered due diligence platform integrating LLMs, AWS OCR, and ArcGIS for automated contract analysis and comprehensive CDC reporting.

**Brain Tumor Segmentation:**

- Engineered 3D deep learning model achieving 98.7% accuracy on BraTS21 dataset with FastAPI deployment for medical imaging workflows.

**914AI Fraud Detection:**

- Developed real-time Shopify fraud system using ML algorithms, DynamoDB, Neo4j graph analysis, and automated decision workflows via AWS Lambda.

**AI Voice Agent:**

- Built cost-optimized telephony solution with STT/TTS integration, intelligent caching mechanisms, and VAPI orchestration for enterprise communications.

**Viral Content Generator:**

- Created AI-driven video processing pipeline using yt-dlp, RapidAPI, and LLMs for automated social media content generation with FFmpeg enhancement.

**Others:** Engineered multimodal text-to-image/video generators and AI visiting card creators using advanced generative models. Built RAG chatbots, automated email campaigns, and multi-agent orchestration systems for streamlined business workflows.