

ZUBAIR AHMED

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SUMMARY

I am a dedicated Artificial Intelligence Engineer with 6 months of Industrial and Research Experience. My expertise spans various areas of AI and machine learning, where I have developed innovative solutions and efficient deployment pipelines. I bring a blend of technical proficiency and creative problem-solving to every project. My objective is to secure a position where I can efficiently contribute my skills and abilities to the growth of the organization and build my professional career.

WORK EXPERIENCE

AI Engineer, Codistan Ventures

Jan 2025 - Present

- Developing a multi-tenant, enterprise-level SaaS platform for secure document management, enabling companies to upload and manage documents with strict data isolation. Integrating Azure Active Directory for authentication and role-based access control, and built automated ingestion pipelines from Google Drive, OneDrive, and SharePoint. Implemented smart document chunking strategies for retrieval, along with query-level caching for frequently asked queries.
- Developed GPT-based chatbot for a Car Management Company, offering ChatGPT-like capabilities tailored to vehicles, including maintenance support, sound and image analysis, vehicle number-based history reports, and real-time market valuation along with backend in FastAPI.
- Developed an AI-powered music generation pipeline using Suno/Chirp for song synthesis and OpenAI for lyric generation, replicating an AI music generation platform.
- Building an AI-powered job portal module to generate personalized, data-driven cover letters based on user input.
- Created a multimodal RAG-based chatbot for an e-commerce platform, integrating image and text data to handle customer queries in real time.
- Designed and implemented a voice-enabled chatbot using Google Speech-to-Text and OpenAI, enabling seamless natural voice interactions.
- Developed a RAG-based pipeline at eSim company to deliver real-time Level 1 query responses for the ACCMeSim platform, with automated escalation to Zendesk.
- Developed a document analyzer tool using OpenAI to extract 200+ key data points from documents and generate construction manager-ready summaries.
- Automated meeting attendance using Playwright and LangChain agents, with TTS/STT, platform control (Zoom, Meet, Teams), and real-time transcription saving to Google Drive.
- Developed an AI-powered recruitment calling agent using Twilio and N8n automation to manage scheduling, question delivery, and call workflows via Google Calendar.

Freelance, Fiverr

Jan 2023 - May 2024

- Developed a deepfake detection system by implementing research paper methodologies, fulfilling client requirements. Designed and implemented both backend and frontend using React for seamless integration.
- Designed python tikinter based desktop application for client to show the live data of football leagues, stats, team plans, and live scores during match using football-data API.
- Developed a crack and pothole detection system by implementing YOLOv8m detection algorithm, fulfilling client requirements. Designed and implemented both backend and frontend using React for seamless integration.
- Overall completed 10+ projects on Fiverr.

EDUCATION

Bachelor of Computer Engineering

Sep 2020 - July 2024

Bahria University Islamabad

- Major in Artificial Intelligence and Embedded Systems.
- Thesis on "*AI-based Baggage Scanner System: Developed an automated detection system for contraband items aimed at enhancing airport and smart city security applications.*".

PUBLICATIONS

A Novel Deep Learning Framework for Contraband Items Recognition in Smart City

Feb 2024

Authors: Dr. Shehzad Khalid, Zubair Ahmed, Ayesha Noor, Ahmed Sedik, Waqar Asif

Conference: INTERNATIONAL CONFERENCE ON SUSTAINABILITY: DEVELOPMENTS AND INNOVATIONS (ICSDI 2024)

SKILLS & EXPERTISE

- **AI Expertise:** RAG Systems, No-Code/Code Automations and Workflows, Agentic AI, Stable Diffusion, LoRA Training and Inference, Voice AI Agent, Agent Orchestration
- **AI Tools and Frameworks:** Langchain, Langgraph, LLM, i.e., GPT, DeepSeek, Mistral, and Grok, Tensorflow, OpenCV, Scikit-Learn
- **Backend Stack:** FastAPI, Flask
- **DevOPS:** Docker, CI-CD Pipelines, AWS, Gitlab, Github
- **OS:** Ubuntu, Windows