

# MOHAMED ARFEEN

AI Engineer | Python Developer | Prompt Engineer

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## PROFESSIONAL SUMMARY

Passionate AI & Data Science undergraduate with hands-on experience building impactful AI applications. Skilled in Python, C, SQL, NLP and Deep Learning. Developed emotion-aware chatbots and AI poster generators, deployed using FastAPI and GPT APIs and having conceptual ideas of a virtual assistant. Strong communicator, workshop leader, and startup co-founder.

## WORK EXPERIENCE

Founded A-Zentrix, a startup focused on building real-time AI-powered solutions for businesses and individuals.

Led product development of AI Poster Maker, integrating prompt engineering, generative AI, and backend automation — securing a ₹200K client project

Built and managed a cross-functional team of developers, designers, and marketers to drive innovation and timely project delivery.

Spearheaded business strategy, branding, and client engagement, resulting in early-stage growth and market traction.

Delivered talks and workshops on AI and prompt engineering to promote open-source innovation and tech adoption in academia.

## CERTIFICATIONS

1. Machine Learning Using Python Programming (SWAYAM, NPTEL)
2. The Joy of Computing using Python (SWAYAM, NPTEL)
3. Deep Learning using PyTorch (GUVI)
4. Reinforcement Learning Foundations (LinkedIn Learning, Feb 2025)
5. Advanced Prompt Engineering Techniques (LinkedIn Learning, Mar 2025)
6. Artificial Intelligence Case Studies in Business Industries (LinkedIn Learning, Mar 2025)

## TECHNICAL SKILLS

**Languages:** Python, C, C++, Java, SQL

**Frameworks & Libraries:** NumPy , Pandas , Matplotlib , Seaborn , OpenCV , Scikit-learn , TensorFlow , FastAPI

**Specialities:** Machine Learning, Deep Learning, NLP, Prompt Engineering, API Development

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## **ACHIEVEMENTS & EXTRA-CURRICULAR ACTIVITIES:**

Winner – Hackapolooza 2025: Secured 1st Prize for developing an AI Emotion Detection System using computer vision and NLP.

1st Prize – UDHAYAM 2025 Paper Presentation: Recognised for presenting a high-impact innovation in AI applications.

Innovation Day Winner: Secured 1st place for bringing an AI idea to life — innovation isn't just about ideas; it's about making them real! Workshop Facilitator: Conducted a hands-on session on Prompt Engineering for engineering students, showcasing real-world AI applications.

Founder – A-Zentrix: Founded a startup focused on real-time AI tools, including an AI Poster Maker and a mental wellness virtual assistant.

## **PROJECTS:**

Emotion-Aware Mental Wellness Chatbot | FastAPI, Python, OpenCV, GPT:

Developed a chatbot system that detects facial emotions using CNN and camera input, responding with personalised support.

Integrated text-to-speech and speech-to-text for natural communication.

Aimed at reducing stress and loneliness, especially among students.

Result: 85% emotion detection accuracy, real-time inference, presented in SIH and college demo day

AI Poster Maker for Businesses | GPT API, Python, Backend Design:

Designed an AI-powered system that converts a business prompt and logo into a marketing poster.

Prompt enhancement was handled using prompt engineering with Gemini.

Planned backend with FastAPI, watermark insertion, and client dashboard.

Virtual Assistant – JARVIS | Python, NLP, Face Recognition, Automation:

Built a desktop-based AI virtual assistant named JARVIS capable of voice interaction, app/web control, emotion-based responses, and daily planning.

Integrated speech recognition, face recognition, and prompt-based intelligence using Gemini and GPT models.

Result: Designed as an all-in-one intelligent assistant showcased during internal tech expos and class demonstrations.