

Mohammed Ammar Karimi

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Objective

Seeking a challenging role in AI-driven product development where I can apply my expertise in Generative AI, Machine Learning, and full-stack development to build innovative, user-centric solutions that deliver real-world impact.

Skills

- **AI/ML:** Generative AI, Natural Language Processing, Machine Learning, Deep Learning, Data Science, Computer Vision
- **Backend:** FastAPI, Flask, Django, MySQL
- **Frontend:** HTML, CSS, JavaScript, Tailwind CSS, WordPress

Education

Master of Technology in Information and Communication Technology – Dhirubhai Ambani Institute of Information and Communication Technology (DAIICT) CGPA: 9.4	2024 – 2026
B.E Computer Science and Engineering (AI/ML) – New L.J Institute of Engineering and Technology CGPA: 9.65	2020 – 2024
Higher Secondary Certificate (HSC) – St. Xavier’s Higher Secondary School Percentage: 64.76%	2019 – 2020
Secondary School Certificate (SSC) – St. Xavier’s Higher Secondary School Percentage: 66.83%	2017 – 2018

Responsibilities

Member of the Student Placement Cell at DAIICT

- Assisting in coordinating campus recruitment, managing communication with companies, and organizing placement preparation activities.

Experience

Product Designer – Startup	05/2025 – Present
<ul style="list-style-type: none">• Developed the backend using FastAPI and the frontend using React. Integrated LLM-based modules for automation and assessment.• Designed and implemented key features such as skill assessment, resume and job description matching, AI interview simulation, and a resume enhancer.	
Technology Intern – Thomson Reuters	01/2024 – 06/2024
<ul style="list-style-type: none">• Developed advanced chatbot using state-of-the-art Generative AI technologies.• Designed an Automated Feedback Processing System to streamline processes done by product owner and support team.	
Project Intern – VOIS	08/2022 – 10/2022
<ul style="list-style-type: none">• Created a career guidance chatbot to help students make informed	

decisions.

- Used Tailwind CSS for a user-friendly website and integrated with Large Language Models to create a chatbot.

Machine Learning Intern – AcmeGrade

08/2022 – 10/2022

- Developed proficiency in Machine Learning concepts and accuracy enhancement techniques.
- Built models: *Stock Market Prediction* and *Cancer Detection*, achieving precision rates that exceed 85%.

Projects

Automated Test Case and Mutant Generation

- Developed an automated pipeline that iteratively generates test cases for a given codebase based on user satisfaction.
- Mutants are generated and evaluated against finalized test cases to determine if they are effectively killed. If any mutant survives, the system generates new test cases until all mutants are killed.
- Ensures comprehensive code coverage by integrating feedback-driven loops for both test case generation and mutation testing.

DHARITRI (Doctor and Healthcare Recommendation Interface for patient Reports and Interactions)

- Developed a platform enabling patients to upload medical reports for AI-based analysis, which provides health insights like dietary recommendations and deficiency detection.
- Doctors access a dedicated dashboard to review AI analysis, approve reports, add expert notes, and respond to patient queries via an integrated chatbot.

Recruitment Automation System

- Developed a fully automated recruitment pipeline using FastAPI, LLMs, and automation tools to handle resume screening, online testing, and AI-driven interviews.
- It was designed to reduce manual intervention and accelerate the hiring process.

Conversational LLM Chatbot

- Built a Retrieval-Augmented Generation (RAG)-based chatbot incorporating memory management, prompt engineering, intent classification, session handling, and activity logging.
- Enabled contextual, multi-turn conversations for enterprise use cases.

Publications

UCGen: Leveraging LLMs for Automated Generation of Use Case Scenarios from Requirements Specification

- Developed a pipeline that uses Large Language Models (LLMs) to automatically generate use case scenarios from natural language software requirements.
- Incorporated an interactive feedback loop where the LLM asks clarifying questions to the user based on the initial output, refines the responses, and generates an enhanced final use case description.

Achievements

- Winner at Technov8 Hackathon for innovative tech solution.
- Secured 3rd place in HackChamp 2023 (State-Level Hackathon).
- Recipient of the Dewang Mehta IT Award for academic excellence in Information Technology.
- Selected to represent at the state-level chess tournament.