

Abdul Rahim | AI Engineer

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Professional Summary

AI Engineer with a Computer Science background specializing in LLMs, RAG, and multi-agent systems. Proficient in Python with hands-on experience architecting and fine-tuning models for domain-specific tasks. Focused on building and delivering production-ready scalable AI solutions.

Education

BS Computer Science | Institute of Space Technology (IST)

(Nov 2021 – Aug 2025)

Work Experience

AI Engineer | **Reporteq**

(July 2026 – Present)

- Contributed in the development of AI calling agent for document follow up.
- Added real time SWAIG function to resend document on live call.

Junior AI Engineer | **CareCloud**

(Aug 2025 – July 2026)

- Automated healthcare pipeline progressing from LLMs to RAG-based multi-agent systems.
- Fine-tuned LLM to enhance domain-specific accuracy for medical data extraction.
- Designed and optimized agent-specific prompts to refine complex clinical workflows.
- Reduced manual data processing time by 40% through implementing automated workflow.

AI Intern | **CareCloud**

(June 2025 – Aug 2025)

- Contributed to the development of an AI-powered X-ray analysis system.
- Assisted with data preprocessing and automation research to improve diagnostic tools.

Technical Skills

Generative AI: LLMs, RAG, MCP, Fine Tuning, LangChain, LangGraph, Prompt Engineering

Machine Learning & Deep Learning: PyTorch, TensorFlow, CNNs, Neural Networks

Computer Vision: Image Classification, Image Segmentation, Feature Extraction

Programming: Python

Databases: MySQL, PostgreSQL, Vector Databases (Pinecone, Qdrant)

Deployment / APIs: FastAPI, Flask, Docker

Web & Tools: HTML, CSS, Git, GitHub

Projects

Medical Coding Automation (LLM + RAG — Internal Project)

- Developed a multi-agent system using LangChain & LangGraph for CPT, ICD, Modifier, and MIPS.
- Implemented semantic retrieval using vector databases for accurate code search.
- Fine-tuned LLAMA 3.3 for extraction and diagnosis prediction using LoRA.
- Achieved 88% CPT, 70% ICD, 86% Modifier, and 100% MIPS accuracy.

Tech: LLMs, RAG, LangChain, Vector Database, LoRA, Python

AI Powered Floorplan Generator (Deep Learning & Computer Vision)

- Developed an end-to-end ML pipeline for automated floorplan generation.
- Implemented CNN-based room localization and layout prediction.

Tech: Python, PyTorch, CNN, ResNet34, DeepLayout, NumPy, Flask

Bone Fracture Detection (Machine Learning & AI)

- Built a ResNet50-based fracture detection model.
- Achieved 100% bone-type accuracy and 87.9% fracture detection accuracy.

Tech: Python, CNN, ResNet50, TensorFlow, NumPy, Pandas