

Arun Singh Thakur

Dubai ,UAE | arunsinghthakur.jobs@gmail.com | [LinkedIn URL](#) | +971 507488093

SUMMARY

Dynamic AI Engineer with expertise in machine learning, natural language processing, and generative AI. Proficient in Python, TensorFlow, and Keras, with hands-on experience in fine-tuning large language models, developing multimodal RAG systems, and building autonomous AI agents. Seeking to drive innovation in AI Engineer, Gen AI Engineer, or ML Engineer roles by leveraging technical skills and international experience in India and the UAE.

SKILLS

- Programming Languages: Python
- Machine Learning Frameworks: TensorFlow, Keras, Scikit-learn
- Generative AI & Agent Frameworks: LangChain, LangGraph, AutoGen, CrewAI
- Databases: MongoDB, PostgreSQL
- Data Visualization: Matplotlib, Seaborn
- Cloud Platforms & Other Tools: NumPy, Pandas, Git, FastAPI, AWS, Azure, Docker

WORK EXPERIENCE

Braiya MENA

AI Engineer

Dubai,UAE

Nov 24-Present

- Developed a Agentic AI chatbot that analyzes high-frequency camera data, allowing users to interact with operational insights in their own language without technical expertise, enabling faster decision-making across multi-client environments, including a major Dubai-based gym.
 - Built autonomous inventory agents to monitor stock levels and trigger reorder workflows, resulting in a 25% reduction in inventory costs through automated procurement strategies.
 - Designed and launched Agent Hub, a centralized platform hosting multiple AI agents for document Q&A, trend-aware marketing, and business intelligence; adopted by clients including a government agency.
 - Engineered an AI-powered chatbot for a law enforcement agency enable real-time incident analysis via automated data summarization, insight extraction, visual reporting, and question answering.
 - Developed an aspect-based text summarization system for extracting actionable insights from unstructured data, enhancing operational decision making .
 - Built an autonomous RFP response writer that analyzes RFP documents, suggests optimal response templates, and generates draft responses with minimal human input significantly accelerating bid preparation workflows.
-

- Engineered an agentic assignment generator using prompt-tuned Claude 3 Sonnet and GPT-4o for autonomous question generation and intelligent evaluation, reducing manual workload by 30%.
- Developed an adaptive question generation system with iterative refinement, leveraging multi-model AI interactions for enhanced accuracy.
- Created an intelligent educational content creation pipeline with automated scoring and feedback loops, processing up to 1,000 questions per hour.

- Fine-tuned a large language model using LORA and QLORA, achieving a 20% improvement in performance for client-specific tasks.
- Developed an LLM evaluator for a RAG pipeline, enabling customization of retrievers and vector databases, improving context retrieval accuracy by 15%.
- Built a multimodal RAG system incorporating tables, text, and images, integrated with a re-ranker for enhanced context retrieval.
- Performed exploratory data analysis (EDA) and fine-tuned BERT models for aspect-based sentiment analysis, improving model accuracy by 10%.

EDUCATION

POSITION OF RESPONSIBILITY

ACTIVITIES