Mohammad Ibrahim

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PROFESSIONAL SUMMARY

Aspiring AI/ML Engineer with 6+ months of experience in building and deploying intelligent systems. Currently interning at PharynxAI, contributing to projects involving GenAI and computer vision. Passionate about ethical and impactful AI, serving as a Global Ambassador for Responsible AI (UAE Chapter). Areas of interest include LLMs, OpenCV, chatbot development, and AI ethics.

EXPERIENCE

AI/ML Intern

PharynxAI

Nov 2024 – Present

Noida, Uttar Pradesh, India

- Designed and developed Python-based automation tools for web scraping and data collection to enhance ML model performance.
- Collaborated with cross-functional teams to design, train, and deploy ML models for financial data analysis.
- Contributed to the development of a fine-tuned LLM using company data, applying unsupervised and supervised fine-tuning techniques on the Llama-3.1 model, and implemented Retrieval-Augmented Generation (RAG) for improved performance.
- Engineered a multimodal Vision-Language Model (VLLM) for document analysis, handling unstructured data (e.g., scanned PDFs, tables) and aligning model output with specific downstream tasks.
- AI JD Builder: Developed the AI backend for a job description generator. Users inputted summaries, and the system returned job description points in a structured format. Additionally, designed an AI-based KPI generator for each job description point to help recruiters assess candidate performance based on the job requirements.
- Built and deployed a solution for comparing resumes and job descriptions, fine-tuning NLP models to extract key information and enhance recruitment accuracy.

- Metadata Service Layer: Developed a backend for metadata query extraction and UID resolution, with the UID passed to a RAG system for efficient embedding retrieval. Optimized the flow from input extraction to final output, ensuring seamless integration and enhanced performance.

Global Ambassador for UAE Chapter

Global Council for Responsible AI (Feb 2025 - Present)

• Contribute to the development and promotion of responsible AI practices and guidelines
• Collaborate with international stakeholders on AI ethics and implementation standards
• Participate in policy discussions and technical reviews of AI systems

TECHNICAL SKILLS

• Programming Languages: Python (primary), Bash scripting
• Machine Learning: PyTorch, TensorFlow, scikit-learn
• NLP & Text Processing: NLTK, spaCy, Transformers, Text vectorization, Tokenization
• Data Processing: Pandas, NumPy, Web scraping, PDF/document parsing
• Development Tools: Docker, Git
• Data Visualization: Power BI, Excel
• Languages: English, Hindi, Urdu

PROJECTS

HR API – Job Description & KPI Generator

FastAPI, Python, LLM (Ollama, LLaMA 3.1), REST, CORS

Developed a RESTful API using FastAPI to generate professional job descriptions and KPIs from role summaries using LLaMA 3.1 via Ollama API. Implemented robust error handling, CORS support, and bullet-point generation for seamless frontend integration.

AI-Powered Resume–Job Description Matching System

Python, spaCy, SentenceTransformers, Ollama, Streamlit

Built an end-to-end AI system to match resumes with job descriptions using NLP and semantic similarity (cosine/Jaccard). Extracted structured data, ranked candidates with adjustable scoring, and visualized gaps via a Streamlit interface.

Automated Abstractive Summarization of Legal Documents

Transformers, FLAN-T5, Hugging Face, Keras

Fine-tuned FLAN-T5-large for summarizing legal texts using Hugging Face. Optimized training with warmups, checkpoint saving, and handled abstractive summarization tasks with multi-task learning capabilities.

UAE Number Plate Price Prediction using Deep Learning

BeautifulSoup, Selenium, Keras, ML Algorithms

Scraped and cleaned number plate data from Xplate.com. Engineered features and developed regression models (linear, RF, NN) to predict prices, incorporating special patterns like 123, 111, and 786 into pricing logic.

Stock Price Prediction using LSTM (Nifty-50)

LSTM, Streamlit, Matplotlib, Keras, Time Series

Predicted stock prices using LSTM on Nifty-50 data with moving averages and trend analysis. Deployed an interactive Streamlit app with ticker dropdowns, EDA visuals, and real-time prediction capabilities.

EDUCATION

B. Tech in Computer Science

Jamia Hamdard, Delhi
Expected Graduation: 2025
Relevant Coursework: Machine Learning, Natural Language Processing, Distributed Systems

Short-Term Training Program in AI and ML

Jamia Millia Islamia, Delhi
Completed: 2024
Focus: Deep Learning, NLP, Model Optimization

Certifications

- Machine Learning with Python (Coursera)
- Introduction to Deep Learning (Coursera)