

Mohammad Ibrahim

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Professional Summary

Machine Learning Engineer with hands-on experience in AI development and NLP, currently serving as a Global Ambassador for the UAE Chapter of the Global Council for Responsible AI. Proven track record in implementing ML solutions and web scraping, with a focus on ethical AI development. Currently completing B.Tech in Computer Science with practical experience in deploying machine learning solutions in professional settings.

Experience

AI/ML Intern

PharynxAI (Nov 2024 - Present)
Noida, Uttar Pradesh, India

- Develop and implement machine learning models for healthcare applications
- Create web scraping solutions for data collection and processing
- Apply NLP techniques for medical data analysis and interpretation
- Collaborate with cross-functional teams to deliver AI-powered solutions

Projects:

- PharynxFin: Developed a fine-tuned LLM using the company's data by implementing various techniques including unsupervised and supervised fine-tuning of Llama-3.1 model and Retrieval-Augmented Generation (RAG). Optimized model performance through hyperparameter tuning and prompt engineering. The project involved scraping company data from websites to enhance financial data analysis and interpretation, ensuring high accuracy and contextual relevance.
- WESEE Project: Built a multimodal Vision-Language Model (VLLM) on confidential company data. Responsibilities included parsing complex PDFs and fine-tuning models to accurately interpret and extract insights from multi-format data sources.
- TalentTrail: Developed a solution for comparing job descriptions and resumes to find the best match for both. Focused on fine-tuning a model to extract key information such as skills, education, and experience from resumes and job descriptions, optimizing recruitment efficiency and accuracy.

Global Ambassador for UAE Chapter

Global Council for Responsible AI (Feb 2025 - Present)
Remote

- 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

Legal Document Summarization with Transformer Models

- Implemented and fine-tuned FLAN-T5-large model for abstractive text summarization using Hugging Face transformers
- Configured and optimized training parameters including learning rate, batch size, and warmup steps
- Implemented model checkpointing and evaluation strategies for performance tracking
- Technologies: Python, Hugging Face Transformers, FLAN-T5, PyTorch

UAE Number Plate Analysis System

- Developed web scraping pipeline using BeautifulSoup to extract data from Xplate.com
- Built and deployed machine learning models for price prediction using multiple algorithms
- Implemented data processing pipeline for handling large-scale structured data
- Technologies: Python, BeautifulSoup, Pandas, scikit-learn, Neural Networks

Nifty-50 Stock Market Predictor

- Developed LSTM-based prediction model for stock price forecasting
- Created Streamlit web application for real-time predictions
- Implemented data pipeline using Fyers API for real-time stock data
- Technologies: Python, LSTM, Streamlit, Pandas, Matplotlib

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)
- Docker Fundamentals (Currently Pursuing)