Nimarta Devi

AI/ML Engineer, Data Scientist

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WORK EXPERIENCE

Appedology Pvt. Ltd.   Karachi, Pakistan

AI/ML Engineer   *October 2023 - Present*

- Built intelligent systems with LLMs and RAG to enhance AI response and improve user interactions.
- Developed APIs integrating LLMs to optimize the data-fetching efficiency.
- Delivered R&D-driven solutions for complex AI challenges, leveraging cutting-edge technologies.

Fastech Systems Pvt. Ltd.   Remote

AI/ML Intern   *June 2023 - August 2023*

- Pioneered prompt engineering techniques, enhancing workflow efficiency across a client project.
- Delivered AI solutions using advanced language models, improving project delivery speed.

EDUCATION

Sukkur IBA University

BS in Computer Science   2019 - 2023

- Completed under the National Talent Hunt Program (NTHP) with a fully funded scholarship.
- Honed strong programming and analytical skills, excelling in both team and individual projects.

PROJECT

- **Text-to-SQL Agent**: Developed a local Text-to-SQL agent using LangChain and LLama 3.1 integrated via Ollama, enabling natural language to SQL conversion with offline functionality.
- **Multi-modal Document Classifier**: Designed and trained a multi-modal model on custom dataset using BERT as text encoder and ResNet50 as image encoder to classify PDFs as Invoice, Receipt, Bank Statement, Tax Document, or Financial Report.
- **Enhanced QueryMaster:** Used Serper API to fetch web data and OCR-extracted data as context for quantized Gemma-7b-it, enabling comprehensive responses to user queries.
- **Emojify**: Facial Expressions mapping to Emoticons using DeepFace, OpenCV and Flask.
- **Traffic Insights**: Leveraged YOLOv8 and DeepSort for vehicle classification, tracking, and counting, with entry and exit point monitoring through customizable boundaries.
- **VoiceClone TTS:** Leverages Tortoise TTS to generate speech in a provided human voice for realistic voice cloning.

SKILLS

- **Core Skills**: Generative AI, Prompt Engineering, Neural Networks, Transfer Learning, Fine-tuning, RAG, Web Scraping, REST APIs, Databases (SQL, NoSQL)
- **Programming Languages**: Python, R, JavaScript, Java, C#, C++
- **Frameworks/Libraries**: PyTorch, TensorFlow, Keras, Scikit-learn, Pandas, NumPy, OpenCV, LlamaIndex, LangChain, Flask, Django, NodeJs, ReactJs
- **DevOps**: Git, BigQuery, Airflow, Docker, AWS EC2, SageMaker, Vertex AI, Google Vision, AutoML

CERTIFICATE

- [Generative AI courses by Google](#)
- [Applied Data Science Labs at WorldQuant University](#)
- [Google Cloud Big Data and Machine Learning Fundamentals](#)