

# Nimarta Devi

*AI/ML Engineer, Data Scientist*

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## WORK EXPERIENCE

### Appedology Pvt. Ltd.

*AI/ML Engineer*

Karachi, Pakistan

*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.

*AI/ML Intern*

Remote

*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.
- **Sentiment-Driven Stock Prediction:** A predictive model that combines live financial data from Alpha Vantage with sentiment analysis from news articles using LSTM to forecast stock price movements.

## 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