

# Joy Maurya

## AI ENGINEER

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### PROFESSIONAL SUMMARY

*Highly skilled Data Analyst with expertise in interpreting complex datasets, extracting valuable insights, and leveraging NLP and Deep Learning for data-driven solutions. Proficient in statistical analysis, SQL, and machine learning, with hands-on experience in building and fine-tuning NLP models using LORA and QLORA.*

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### EDUCATION

#### **B.Tech in Electrical Engineering | 2020-2024**

*National Institute of Technology, Surat*

- CGPA : 7.5

#### **Puna International School, Ahmedabad | 2018-2020**

- SSC Board : 83%

### EXPERIENCE

#### **AI Engineer at VLOCITY AI | 1 Feb 2024 to 28 Aug 2024**

- Developed solutions for the Cordana project, including food group classification using open-source large language models (LLMs).
- Conducted extensive data filtration and scraping, utilizing Python libraries such as Pandas .
- Trained Models for Image Captioning and Object Detection on P&ID symbols.

### PROJECTS

#### **Encoder And Decoder Architecture**

- Implemented the project using PyTorch, leveraging its deep learning capabilities.
- Encoder and decoder are used together to build transformers like CHATGPT

#### **RAG Using Open Source Models**

- Developed a high-performance Retrieval-Augmented Generation (RAG) system by integrating an open-source language model with GROQ APIs and Langchain

#### **Translation Model From Scratch**

- Built and Trained English to Spanish translation Model from scratch using Pytorch

### **Key Skills**

*Data Analysis- SQL, pandas, NumPy*  
*Natural Language Processing (NLP)*  
*Deep Learning - PyTorch, Hugging Face*  
*Machine Learning*  
*Data Scraping And Processing*  
*Fine Tuning LLMs*

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