

Prasant Bagale

Kathmandu, Nepal

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Summary

ML Engineer specializing in NLP and Computer Vision for real-world solutions.

Skills

Languages: Python, Dart

AI/ML: PyTorch, TensorFlow, Scikit-Learn, LangChain, spaCy, OpenCV

Web/Mobile: Flask, FastAPI, Flutter

Tools: Docker, Git, REST APIs

Expertise: Machine Learning, Deep Learning, NLP, Computer Vision

Key Skills: Data Preprocessing, Model Evaluation, LLM Fine-tuning, Recommender Systems

Experience

ML Engineer, Omdena – Remote

Sep 2024 – Dec 2024

- Developed a Predictive AI-driven dashboard to forecast Malaria and Cholera outbreaks in Africa, integrating epidemiological and weather data.

AI/ML Developer, Icebrkr – Kathmandu, Nepal

Mar 2024 – Aug 2024

- Preprocessed data, engineered features, and evaluated machine learning models.
- Built NLP and Computer Vision projects, fine-tuned LLMs, and created recommender systems.

Software Engineer, Self-Employed

Nov 2022 – Jan 2024

- Developed web and mobile applications using Python (Flask/FastAPI) and Flutter.
- Integrated REST APIs for seamless data flow and enhanced functionality.

Mobile Application Developer, Swivt Technologies – Kathmandu, Nepal

Jan 2022 – Oct 2022

- Learned state management techniques and Clean Code Architecture.
- Worked on eCommerce and education-related projects (e.g., Stem Unicorn app, SMEGO, Citi977).

Projects

Nepali Text Summarization with MBart

HuggingFace Demo

Fine-tuned MBart for Nepali text summarization with the Transformers library.

Novel Recommendation System

HuggingFace Demo

Built a recommendation system using 15,000 book records, Hugging Face embeddings, FAISS, and FastAPI.

Write4Me

GitHub Demo

Developed a mobile app leveraging OpenAI and LLaMA 3.2 for text extraction and answering queries.

Education

B.Sc. in Computer Science and Information Technology, Indreni College, Tribhuvan University – Kathmandu, Nepal

2016 – 2021

Final Year Project: ShopVia – A Shopping Comparison App

Certificates

Generative AI with Large Language Models (Coursera): Certificate Link

Natural Language Processing with Classification and Vector Spaces (Coursera): Certificate Link