



Ravi Prajapati — ML/AI Engineer

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Career Summary

I'm a Kathmandu University graduate and an ML/AI enthusiast deeply engrossed in exploring and applying cutting-edge technologies such as Large Language Models (LLMs), Stable Diffusion techniques, and AI-driven content generation. My experiments with these state-of-the-art tools have equipped me with the expertise to harness their potential and drive innovation. Let's discuss how my forward-thinking approach and hands-on experience can propel your projects to new heights!

Education

Kathmandu University

Undergraduate Certificate in Computer Engineering

Dhulikhel, Kavre

Aug 2016 – Aug 2020

Seabird Int. College

Higher Secondary School Certificate

Madhyapur Thimi, Bhaktapur

May 2014 – Mar 2016

Experience

Prixia Technologies

ML Engineer

Lalitpur

Sep 2020 – ongoing

- Led various projects implementing LLMs and generative models to enhance content personalization and user engagement.
- Designed and deployed AI models in production using cloud services like PaperSpace, AWS, and Google Cloud.
- Integrated advanced AI features in web applications using FastAPI.
- Developed robust data pipelines for AI model training using web scraping tools and automation workflows.

Projects

Nepali TTS Project: Nepali TTS Project

A real-time Nepali text-to-speech project utilizing advanced ML models.

- *Roles:* Data collection, preprocessing, model development, training, and deployment.
- *Integration:* Successfully integrated into several Nepali news websites such as Annapurna Post, ThahaKhabar, and others.

News Talk: Nepali News Recommendation App (Android) & (iOS)

A personalized content app providing news from various Nepali news sources.

- Utilizes user interactions for tailored news recommendations using diverse models.

BCY: Platform Integration Project

A project merging two e-learning platforms into a single web-based interface.

- Implemented API integrations and developed a new integrated points system dashboard in Metabase.
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SIKKA: Blockchain Project (SIKKA)

A digital tool powered by Hyperledger Fabric blockchain technology for facilitating cash and voucher assistance programs.

- Developed and hosted on AWS, enabling the distribution of digital tokens to beneficiaries.

Other Projects.....

- **Web Scraping:** Developed scripts for automating data extraction from various websites, improving data collection efficiency.
- **Nepali Document Summarizer and Paraphraser:** Created a tool that uses NLP techniques to summarize and paraphrase documents in Nepali, enhancing content readability.
- **Nepali OCR:** Implemented an Optical Character Recognition system to convert scanned images of Nepali text into editable and searchable data.
- **AI Image Generation:** Utilized generative adversarial networks (GANs) to create realistic images based on textual descriptions in Nepali.
- **Nepali ChatBot:** Developed a conversational agent capable of understanding and responding to queries in Nepali, aimed at enhancing user engagement.

Technical Skills

Machine Learning: Deep learning, LLMs, computer vision, natural language processing

Libraries: Pytorch, Numpy, pandas, huggingface

Web Scraping: BeautifulSoup, Scrapy, Selenium

Automation: Selenium, Airflow, Celery

Cloud Services: PaperSpace, AWS, Google Cloud

API Development: FastAPI

Database Management: SQL, PostgreSQL, Metabase

LLMs: ChatGPT, Vicunna, LAMDA2

Audio/Video Editing: Audacity, Adobe Premiere Pro, OBS

Interests

I'm truly passionate about the magic of AI, from the nuances of natural language understanding with Large Language Models to the creative horizons opened by stable diffusion models. I'm equally fascinated by the world of Speech-Based Technologies. There's something thrilling about finding new ways to weave machine learning into the fabric of our daily lives, making every interaction with technology feel more natural and intuitive.