



Ravi Prajapati – AI/ML Engineer & Founder

Thimi-6, Bhaktapur – Nepal

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D.O.B: 1997/10/06 | Driving License: 2-wheeler

Career Summary

AI/ML engineer and founder building intelligent, scalable systems that ship – from healthcare automation and government geoportals to retrieval-augmented agents. I specialise in Agentic AI, Retrieval-Augmented Generation (RAG), Model Context Protocols (MCP), and modern LLM stacks (GPT-4, Claude, LLaMA, Mistral). As CEO of Thimi Tech, I lead a team turning real-world problems into deployed AI-driven products for businesses and government bodies across Nepal.

Education

Islington College – affiliated with [London Metropolitan University, UK](#)

MSc IT with Specialisation in Artificial Intelligence

Kathmandu, Nepal

Nov 2025 – Present

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

Thimi Tech Pvt. Ltd.

Founder & CEO

Bhaktapur, Nepal

2025 – Present

- Founded and lead a Nepal-based software company delivering intelligent digital solutions – geoportals, municipal management systems, AI/ML applications, and modern web platforms – for businesses and government bodies.
- Set technical direction across an in-house team; own architecture, model selection, deployment, and delivery of every shipped product.
- Trusted by Bagmati Province Government, Explore Nepal, Modish Era, and Navtech Engineering Solutions.
- Built and operate a portfolio of products in production (see Projects).

S.D.S. Software Development Nepal

Machine Learning Engineer

Kathmandu

Jan 2024 – Present

- Built, deployed, maintained, and improved production-grade machine learning models.
- Specialised in healthcare AI – automating claims and document workflows with OCR and NLP pipelines.
- Helped design infrastructure for automating healthcare operations end-to-end.
- Supported scaling of ML systems with automation platforms and cloud deployment.

Prixa Technologies

ML Engineer

Lalitpur

Dec 2020 – Dec 2023

- Designed and deployed AI models in production using AWS, PaperSpace, and GCP.
- Led projects implementing LLMs and generative models for content personalisation.
- Integrated AI capabilities into web applications using FastAPI.
- Built data pipelines for ML workflows with web scraping, automation, and orchestration tools.

Projects (at Thimi Tech)

PlanMyNepal: Travel & Trip-Planning Platform for Nepal

A platform helping travellers discover Nepal's destinations, culture, and cuisine – combining itinerary tools, content storytelling, and local data into a single planning experience.

AI.ThimiTech: Custom Chatbot Service with Trainable Knowledge Base

An AI assistant platform letting clients spin up custom chatbots on their own knowledge bases – RAG-powered, context-aware responses tuned to each business's documents and workflows.

Survey.ThimiTech: SurveyGIS Platform

A geospatial survey platform for field data collection and visualisation – designed for municipalities and planners who need structured survey data tied to a map.

PSDI Bagmati: Provincial Spatial Data Infrastructure – Bagmati Province Government

A centralised geoportal for Bagmati Province offering spatial data, interactive maps, and intelligent visualisations – built for planners, researchers, educators, and government bodies to make informed, data-driven decisions.

Earlier Projects

Nepali TTS Project: Real-time Nepali Text-to-Speech

- Roles: data collection, preprocessing, model development, training, and deployment.
- Integrated into multiple Nepali news websites (e.g. Annapurna Post, ThahaKhabar).

News Talk: Android & iOS Personalised News App

- Implemented ML-driven recommendation algorithms using user-interaction data.

SIKKA: Hyperledger Fabric Blockchain Voucher Platform

- Deployed on AWS; distributed digital tokens to beneficiaries.

Other Projects

- **Nepali OCR System:** OCR pipeline for digitising Nepali documents.
- **RAG-based Chatbot:** Retrieval-augmented generation with vector databases.
- **Gradio ML Demos:** Interactive ML model demos using Gradio.
- **n8n Automations:** Automated ML workflows, integrations, and data pipelines.
- **AI Image Generation:** Diffusion-based generative image models.

Technical Skills

Machine Learning	Deep Learning, LLMs, RAG, Agentic AI, MCPs, NLP, Computer Vision
Libraries	PyTorch, Hugging Face, NumPy, Pandas
OCR Specialisation	Tesseract, EasyOCR, custom OCR pipelines
ML Demos & UIs	Gradio, Streamlit
Automation	Selenium, Airflow, Celery, n8n
Cloud Services	AWS, GCP, PaperSpace
API Development	FastAPI
Databases	PostgreSQL, SQL, Vector DBs (FAISS, Pinecone)
Visualisation	Metabase, Tableau
LLMs	ChatGPT, Claude, LLaMA, Mistral, VLMs
Geospatial	Geoportals, interactive maps, spatial data infrastructure
Audio / Video	Audacity, Adobe Premiere Pro, OBS

Leadership & Interests

I lead Thimi Tech's product and engineering direction – mentoring developers and interns, shaping architectural decisions, and translating client needs into deployable AI systems. I'm most engaged at the edge of agentic AI, RAG, and multimodal models, and I enjoy building user-friendly AI apps and automation systems that pull state-of-the-art ML into practical, real-world use.