

SAUGAT DHUNGANA

AI Engineer | Machine Learning & Backend Development

Kathmandu, Nepal | +977 9867565527 | saugatdhungana746@gmail.com | www.saugat-dhungana.com.np |
github.com/SaugatDh | linkedin.com/in/saugat-dhungana

PROFESSIONAL SUMMARY

AI & Full-Stack Engineer with commercial experience designing, optimizing, and deploying production-grade AI systems and robust backend architectures. Proven track record building enterprise-grade RAG pipelines, fine-tuning open-source LLMs and speech models, and developing scalable REST APIs (Django, FastAPI, Laravel) integrated with modern front-ends (React, Next.js).

PROFESSIONAL EXPERIENCE

Backend Trainee

Midas Health Services

06/2026 – Present

Lazimpat, Kathmandu, Nepal

- Focusing on Content Management Systems (CMS) and Healthcare Management Systems (HMS) using Laravel.

Freelance Full-Stack Developer

Self-Employed

05/2026 – Present

Remote

- Built a Property Management System using React and Laravel.
- Delivered civoraxtech.com and civoraxinfra.com using Next.js.

AI Engineering Trainee

IOXET Labs

11/2025 – 04/2026

Lalitpur, Nepal

- Developed AI Palika Agent, a conversational system for municipal services in Nepal.
- Designed complex RAG pipelines, managed vector databases, and built RESTful backend APIs.
- Fine-tuned PyTorch models (NLLB, Wav2Vec2) for Nepali speech recognition and translation.

EDUCATION

BE in Computer Engineering

Madan Bhandari College of Engineering

07/2021 – 10/2025

Urlabari, Nepal

High School, Technical Stream (Computer Engineering)

Janata Secondary School

04/2016 – 03/2020

Gauradaha, Nepal

TRAININGS

On-the-Job Training (OJT) — Lab Assistant & Coding Instructor

Shree Janata Secondary School

2018 – 2020

Jhapa, Nepal

- Completed college OJT requirement teaching software and coding fundamentals to technical stream computer engineering students.

TECHNICAL SKILLS

Core Skills: Python, Django, Django REST Framework (DRF), FastAPI, Laravel, Retrieval-Augmented Generation (RAG), LangChain, PyTorch, PostgreSQL, Git, Docker, Prompt Engineering, Vector Databases (Pinecone, ChromaDB)

Also Familiar With: TensorFlow, Hugging Face Transformers, Scikit-Learn, MongoDB, MySQL, SQLite, Redis, Celery, React, Next.js, TypeScript, React Native, Tailwind CSS, JavaScript, PHP, SQL, C/C++, Linux, Google Document AI, OCR Pipelines, IoT Development

SELECTED PROJECTS

Portfolio + AI Chatbot (Full-Stack RAG System)

03/2026 – 04/2026

- Built an end-to-end full-stack web application featuring an AI assistant using Groq, Gemini embeddings, and Pinecone vector search for semantic context retrieval.
- Implemented an admin panel to fetch website content and run a custom data-training pipeline (www.saugat-dhungana.com.np).

Blog CMS with Role-Based Access (Laravel)

06/2026 – 07/2026

- Built a multi-user blog system with role-based access (admin/user) and post workflow (draft → pending → approved/rejected).
- Implemented comments, likes, image uploads, and email notifications via queued jobs.
- Used service-layer architecture, Form Request validation, Eloquent model scopes, and auto-slug generation.

Ausadhi AI (OCR + Medicine Query System)

02/2025 – 05/2025

- Developed an end-to-end pipeline scanning physical medicine labels using OCR technologies.
- Configured real-time matching against a structured vector database to retrieve drug classification and health information.

Smart Farm IoT + ML System — 1st Place, DELTA Hackathon 5.0

02/2025

- Conceptualized and deployed a smart agricultural monitoring framework integrating IoT sensors with predictive machine learning models.

AWARDS & CERTIFICATIONS

- 1st Place Winner, DELTA Hackathon 5.0, Dharan — Smart Farm IoT Project (02/2025)
- PyTorch for Deep Learning Bootcamp — Zero to Mastery Academy (05/2026)
- Prompt Engineering Bootcamp (Working with AI & LLMs) — Zero to Mastery Academy (05/2026)
- Python for Beginners — Zero to Mastery Academy (05/2026)
- Machine Learning Bootcamp Certification — ITSNP (2025)