

Navin Lamsal

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PROFESSIONAL SUMMARY

Data scientist and full-stack engineer with three years of professional experience building production web applications, transitioning into applied AI and machine learning. Hands-on builder of multi-agent LLM systems, RAG pipelines, and NLP applications, with a strong foundation in deep learning architectures (CNN, RNN, GAN, Transformer). Currently pursuing an MSc in Data Science at York St John University. Brings engineering depth in API integration, cloud deployment, and database design alongside practical AI/ML project experience.

SKILLS

Data Science & AI: Machine Learning & Deep Learning (Regression, Decision Trees, CNN, RNN, LSTM, GAN, Transformers), NLP & LLM tooling (LangChain, RAG, prompt engineering, multi-agent orchestration, sentiment analysis), Python data stack (Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Keras, OpenCV, spaCy), Data visualization (Matplotlib, Seaborn, Plotly), SQL, Exploratory Data Analysis, feature engineering

Software Development: React.js, Next.js, Redux, Tailwind CSS, Bootstrap, ShadCN UI, Python (Django, Flask), REST API design & integration, PostgreSQL, MongoDB, JavaScript, TypeScript, C, C++, Object-Oriented Programming, Data Structures & Algorithms

Tools & Platforms: AWS, Azure, Google Cloud Platform, DigitalOcean, Vercel, Netlify, Git/GitHub, Postman, Linux shell scripting, Strapi, Sanity, Firebase, Web security fundamentals (TCP/IP, DNS, authentication)

PROJECTS

Financial Doctor AI

Local Multi-Agent RAG System for Financial Health Diagnosis

- Built a privacy-focused, local-first application that audits bank statements and financial documents using a coordinated team of AI agents to calculate financial health scores and flag bankruptcy risk, with all embeddings and inference running on local hardware.
- Implemented parallel agent execution with Python asyncio and threading, reducing processing time by up to 40% compared to sequential execution.
- Designed an interactive RAG-based Q&A interface for follow-up questions on specific transactions, with smart state management to prevent data leakage between separate audits.

News Sentiment & Article Analyzer

- Developed a multi-language (Nepali, Hindi, English, Chinese, Japanese) news analysis tool using LangChain and Newspaper4k, generating executive summaries, sentiment classification, and keyword extraction from any article URL.
- Built the system to work interchangeably with OpenAI, Anthropic, or local models via Ollama/vLLM, with automatic language detection and translated output.

Prompt Architect (Prompt Generator)

- Built a Streamlit application that generates and refines role-based system prompts using LangChain and Gemini 3.1 Flash Lite Preview, producing three distinct prompt variations (direct, persona-driven, constraint-heavy) per request.
- Implemented an automated refinement pipeline to optimize generated prompts for cost and performance.

EXPERIENCE

Project Manager (Contract)

Oct 2025 – Aug 2026

VPIT Consultancy Pvt. Ltd.

Remote

- Assembled and led a small internal development team, owning project planning and delivery for three software products: a Learning Management System and two e-commerce platforms.
- Directed development through an iterative build-test-refactor cycle across modules, ensuring steady, functional progress at each stage.
- Managed end-to-end delivery from scoping through handover, ensuring on-time completion across all three projects.

Frontend Developer

Apr 2024 – Sep 2025

MoreTech Global Pvt. Ltd., Zero KM, Pokhara

- Developed responsive web applications using Next.js, React.js, Tailwind CSS, Bootstrap, ShadCN UI, and payment integrations including Stripe.
- Designed and implemented UI components for dashboards, listings, and dynamic content; integrated REST APIs for real-time data and external services.
- Contributed to multi-tenant SaaS platforms with dynamic routing, tenant-specific data management, and gamified reward features.
- Ensured SEO optimization and fast-loading performance; deployed and hosted applications on DigitalOcean and Netlify.

Junior Frontend Developer

Apr 2023 – Jan 2024

NepTechPal Pvt. Ltd., Jalpa Road, Pokhara

- Built responsive web applications using Next.js, React.js, Tailwind CSS, Bootstrap, Stripe, PayPal, and ShadCN UI for test-preparation, matrimony, and rental platforms.

- Integrated REST APIs for content delivery, user data, and payment functionality; applied SSR/SSG techniques with Next.js to optimize performance and SEO.
- Collaborated with backend and mobile teams to ensure feature parity and consistent UX across platforms.

CERTIFICATIONS

- Deep Learning with Python, Broadway Infosys, Kathmandu (2026, 3.5 months): Completed an intensive program covering Python fundamentals through deep learning architectures (ANN, CNN, RNN, GAN) and NLP using TensorFlow, PyTorch, and Keras; delivered hands-on projects including face detection, image classification, object recognition, and sentiment analysis.

EDUCATION

York St John University, United Kingdom <i>MSc Data Science.</i>	<i>Sep 2027 (Expected)</i>
Tribhuvan University, Prithvi Narayan Campus, Pokhara <i>Bachelor of Science in Computer Science and Information Technology (BSc.CSIT). GPA: 76.04%.</i>	<i>Oct 2024</i>
Srijana Secondary School, Pokhara (NEB) <i>10+2 Higher Secondary Education, Science.</i>	<i>Jul 2019</i>