

Pratigya Dhakal

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PROFILE

Software Engineer and MSc student who builds MERN stack and backend applications. Worked as a Node.js developer intern, built web, mobile and API projects, and completed a master's project applying NLP to Nepali political comments.

EXPERIENCE

Tutor – Informatics College, Pokhara 2025 – Present

- Teach fundamental software engineering concepts.

Project Management Associate Intern – Excellerate 2024

- Assisted with project coordination and task tracking across teams.
- Supported agile workflows and documented project progress.

Node.js Developer Intern – Imark Digital, Pokhara Nov 2023 – Feb 2024

- Developed and maintained server-side applications using Node.js.
- Collaborated with the development team to implement new features.
- Helped debug and optimize backend processes.

PROJECTS

Aspect-Based Nepali Political Sentiment Analysis from YouTube Comments

- Compared BiLSTM, mBERT, XLM-RoBERTa and NepBERTa on aspect-based sentiment analysis of 15,669 annotated YouTube comments from the 2026 election.

Nepali Sparsa – MERN E-commerce Application

- Built product listing, shopping cart and user features, and integrated the React frontend with backend APIs.

Food Snap – AI-based Mobile Application

- Built a mobile app that analyzes food and returns its nutritional information.

Book Inventory System – MERN Application

- Developed a web app to manage book collections, with full CRUD operations.

News API – Node.js Application

- Developed a Node.js backend that fetches news articles and serves them through REST APIs.

CabAvenue – Taxi Booking Application

- Designed a GPS-based cab booking system and developed its features as part of a team.

Swift Bluebook Renew – Web Application

- Built a web platform that simplifies bluebook renewal and reduces waiting time.

PUBLICATION

Use of Pirated Software in the Government Sector: An Empirical Study of Microsoft Windows and Office Suite in Local Governments of Nepal

2026

- *Journal of Engineering Issues and Solutions*, Vol. 5, No. 2, pp. 157–169.
- DOI: 10.3126/joeis.v5i2.97810

TECHNICAL SKILLS

Languages: JavaScript, Python, C, Dart

Frontend: React, HTML, CSS, Figma

Backend: Node.js, Express.js, REST APIs, Prisma (ORM)

Databases: MongoDB, SQL

Tools: Git, GitHub, Google Colab, Jupyter Notebook, Excel

Machine learning: Basic concepts; transformer models for Nepali text

EDUCATION

MSc in Communication and Knowledge Engineering

Ongoing, from 2025

Paschimanchal Campus (WRC), Tribhuvan University

Bachelor of Software Engineering

2023

Gandaki College of Engineering and Science, Pokhara University

Higher Secondary School

2017

Sai Global Academy

VOLUNTEERING AND TRAINING

- **Volunteer:** TEDx (2026), JavaScript game development session (2023), Git workshop (2022), Girls in Tech (2020), GCES IT Expo (2020)
- **Training:** Basic Machine Learning and AI (2023)
- **Participant:** Design Thinking event (2023), Linux workshop (2022), Google Developer Group event (2022), Canva workshop (2021)