

# Sugam Pokharel

Computer Engineering Student

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## Summary

Enthusiastic Computer Engineering student with a strong foundation in Machine Learning, Natural Language Processing (NLP), and Full-Stack Web Development. Passionate about building intelligent systems and solving real-world problems using modern technologies. Demonstrated ability to manage projects involving web, AI, and data science solutions.

## Education

2021 – 2025 **Bachelor of Computer Engineering**, *Thapathali Engineering Campus*, Tribhuvan University  
Relevant Coursework Machine Learning, Data Structures, Database Systems, Software Engineering

## Skills

Languages Python, JavaScript, SQL, HTML/CSS  
Frameworks TensorFlow, PyTorch, React, Node.js, Express  
Web MERN stack, REST APIs, Full-stack integration  
GIS QGIS, ArcGIS, Leaflet.js, GeoJSON  
Data Tools Excel, Power BI, Pandas, Matplotlib  
Concepts ML algorithms, Neural Networks, NLP, Spelling Correction, Classification Models

## Projects

- 2023 **MERN Website**, Developed a full-stack web app using MongoDB, Express, React, and Node., Repo
- 2024 **Nepali Spelling Correction**, Developed a Nepali spelling correction model using Transformer architecture for NLP text correction.
- 2024 **Amazigh Numbers Classification**, Built an Artificial Neural Network to classify Amazigh script digits using image data., Repo
- 2024 **ML Models from Scratch**, Implemented various ML models (Naive Bayes, ANN) without external libraries to understand fundamentals., Repo
- 2025 **Nepal Hydropower Map**, Built an interactive map visualizing Nepal's hydropower infrastructure using geospatial tools and Leaflet.js., Online Map
- 2025 **Gallic War Map**, Created an interactive online map for Julius Caesar's Gallic Wars using historical data and mapping technologies. Performed spatial data creation using offline sources., Online Map

## Certifications & Achievements

Academic Projects Successfully completed multiple software and AI-related academic projects.  
Hackathons Participated in local hackathons and student-led innovation programs.

Online Courses Completed MOOCs related to AI and Web Development on Coursera and edX.

## Languages

English Fluent

*Reading, Writing, Speaking*

Nepali Native

## Interests

Professional Machine Learning, Natural Language Processing, Web Development

Personal Map-making, History, Language Technology, Open-source Contributions