

AAROGYA BHANDARI

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EDUCATION

Institute of Engineering, Tribhuvan University, Thapathali Campus

Kathmandu, Nepal

Bachelor of Computer Engineering

2021 – 2025

- Key Courses: Data Structure and Algorithm, Artificial Intelligence, Theory of Computation, Discrete Structure, Microprocessor System, Data Mining, Computer Networks, Big Data

Valmiki Shiksha Sadan

Chitwan, Nepal

School Leaving Certificate (SLC), Science

July 2018 - April 2020

TECHNICAL SKILLS

Languages	: Python, C, C++, JavaScript SQL
Web & Mobile Development	: HTML, CSS, Django, Flask, FastAPI, React Native (with Expo)
Database Technologies	: PostgreSQL, MySQL
AI / ML	: Pandas, NumPy, Matplotlib, PyTorch, Huggingface
Version Control & API Testing	: Git, Github, Postman
Productivity & Documentation	: Microsoft Word, Excel, PowerPoint, LaTeX, Canva

ACADEMIC PROJECTS

‘Samadhan’ – A Local Government Services QueryBot

6th Semester Project

- Developed a chatbot model which answers the queries related to governmental procedures
- Performed surveys and interviews with government officials of the Lalitpur Metropolitan City
- Built using Rasa chatbot platform, JavaScript and Python

Responsive Crime Monitoring and Instant Classification Utilizing AI on Live CCTV Feeds

AI Fellowship Project

- Created a model to classify videos as violent or non-violent
- Developed ResNet18-LSTM model for sequence analysis using PyTorch

‘NutriGuard’ - AI-Enhanced Nutritional Label Extraction and Diabetic Health Assessment

8th Semester Project

- Integrated a YOLO-based detector and Gemini OCR pipeline to extract structured nutritional data.
- Developed XGBoost Glycemic Index predictor and Diabetica Model merging scans with user health data.
- Built mobile app in React Native with Python Flask backend for real-time dietary recommendations.

EXTRACURRICULAR ACHIEVEMENTS AND ACTIVITIES

Fusemachines, Kathmandu

Kathmandu, Nepal

AI Fellowship 2024

April 2024 - October 2024

- Completed a Microdegree in Artificial Intelligence

Electronics and Computer Community Amidst Students, Thapathali (ECAST)

Thapathali Campus, Kathmandu

Communication and HR

Dec 2021 – Jun 2024

- Organized college events on programming, AI, design, and gaming
- Obtained event sponsorships through outreach to external companies

Vertex Hacks – Chapter Alpha

Thapathali Campus, Kathmandu

Organizer

Sept 2022 – Jan 2023

- Organized a national-level 48-hour hackathon with participation from over 100 students
- Oversaw sponsorship outreach, ensuring adequate funding and support for the event

Yathartha - 2080

Thapathali Campus, Kathmandu

Organizer

Sept 2022 – Jan 2023

- Successfully organized a national-level engineering exhibition
- Led the event Competitive Programming competition and Gaming competition