

Binu Prajapati

Computer Engineering Final-Year Student | AI/ML Enthusiast | Full-Stack Web Developer

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Professional Summary

Final-year Computer Engineering student at Khwopa Engineering College with hands-on experience in building full-stack web applications and AI-powered systems. Proficient in Python, Django, C++, and JavaScript, with a strong focus on backend logic and clean architecture. Demonstrated technical expertise through the development of real-world solutions, including a scalable rental management system and NLP-based applications. Passionate about software engineering and AI/ML, I am dedicated to solving complex problems through efficient code, technical collaboration, and continuous learning to build impactful technology.

Education

Bachelor of Engineering in Computer Engineering

2022 – Present

Khwopa Engineering College, Bhaktapur | Purbanchal University

Higher Secondary Education (+2 Science)

2022

Khwopa Higher Secondary School, Bhaktapur

Secondary Education Examination (SEE)

2020

Bagiswori Secondary School, Bhaktapur

Technical Skills

Programming Languages	C, C++, Python, JavaScript
Web Development	HTML, CSS, JavaScript, Django
Databases	MySQL, PostgreSQL, SQLite
Tools & Technologies	Git, GitHub, VS Code, L ^A T _E X, WordPress
Core Competencies	Full-Stack Development, API Integration, UI/UX Understanding, Problem Solving, Team Collaboration

Projects

Logic Lens: Fallacy Detector & AI Reasoning Assistant

Hackathon Team Project

Tech Stack: Python, AI/ML, NLP, LLM APIs, Browser Extension | [View Project](#)

- Developed an AI-powered logical fallacy detection and reasoning assistant delivered through a browser extension, enabling users to analyse online content and arguments directly within their browsing experience.
- Integrated Natural Language Processing and Large Language Model APIs to identify fallacious reasoning patterns, evaluate argumentative structures, and generate contextual explanations with reasoning-based feedback.
- Designed a lightweight and user-friendly extension workflow for real-time text analysis, critical thinking assistance, and educational feedback across web platforms.
- Collaborated within a fast-paced hackathon team environment to rapidly prototype, develop, and present the solution, leading to **winning the AI/ML Track at KU Hackathon 2025**.

RentEra: Peer-to-Peer Rental & Management System

Third-Year Major Team Project

Tech Stack: Django, Python, SQLite, JavaScript, AI/NLP (Chatbot), eSewa & PayPal APIs | [View Project](#)

- Developed a secure MERN-stack and Django-integrated ecosystem to eliminate intermediaries in the housing market, implementing advanced authentication workflows utilizing citizenship and land ownership verification for enhanced trust.
- Engineered an intelligent recommendation engine that dynamically suggests properties based on user navigation patterns, clickstream data, and precise geolocation determination.
- Integrated an AI-powered chatbot and real-time communication system to automate renter-owner interactions, alongside a custom automated expiry logic for property listings to maintain data freshness.
- Built a robust backend for financial transactions, successfully integrating eSewa and PayPal gateways to facilitate secure rental payments and tracking.

Chatbot- UFONepal

Individual Project

Tech Stack: Python, Streamlit, NLP libraries, Pytorch, pyttsx3 | [View Project](#)

- Designed for learning and small-scale AI conversation applications. Features include Intent-based question, text-to-speech responses and session-based conversation handling.

Painting Muse- eCommerce website

Individual Project

Tech Stack: HTML, CSS, JS, python , postgres, Django | [View Project](#)

- Developed a full-stack e-commerce platform for art commerce featuring multi-criteria filtering, secure PayPal integration, and a category-based search system to streamline the buying and selling of paintings.

Bus Ticket Reservation System

Team Project

Tech Stack: C++, graphics.h | [View Project](#)

- Developed a GUI-based desktop application for bus reservation featuring an interactive seat layout, automated ticket booking, and route management using C++ graphics libraries.

Additional Mini Projects: Pocketmedid | Wordpress webiste (Anime Store) | Task manager | Graphical linkedlist representator

Achievements & Certifications

- **Winner** — AI/ML Track, KU Hackathon 2025
- 10-day AI & ML workshop by ITNSP
- 7-day Jira Workshop by Delta Dynamics Academy
- KhwopaCeel 2026 participant
- Postman training
- L^AT_EX Typesetting Training

Leadership & Extracurricular

- **Workshop Lead** — Nobel Internship: Facilitated a 4-day WordPress web design workshop, guiding participants through hands-on exercises in site development and design.
- Actively participated in hackathons and competitive technical challenges, demonstrating problem-solving under real-world constraints.
- Experienced in Agile-style team-based software development with roles spanning UI/UX, backend, and project coordination.