

ANISHA KUMPAKHA

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Professional Summary

Third-year Computer Engineering student with experience in web development, databases, and software development. Skilled in Python, JavaScript, C++, Django, SQL databases, and NLP-based applications. Interested in AI, software engineering, and building practical solutions. I am passionate for software development and eager to contribute my technical skills and creativity to real-world projects.

Education

Bachelor of Engineering in Computer Engineering | 2022 - Present

Khwopa Engineering College, Bhaktapur | Purbanchal University

Higher Secondary Education (+2) | 2022

Khwopa Higher Secondary School, Bhaktapur

Secondary Education(SEE) | 2020

Golden Gate English Secondary School, Bhaktapur

Technical Skills

- Programming Languages: Python, JavaScript, C++
- Web Development: HTML, CSS, JavaScript, Django
- Databases: PostgreSQL, SQLite, MySQL
- AI/ML and NLP: Natural Language Processing, LLM APIs
- Tools and Platforms: Git, GitHub, VS Code, WordPress, Streamlit

Soft Skills

- Communication
- Teamwork & Collaboration
- Leadership
- Problem Solving
- Critical Thinking
- Time Management and Adaptability
- Adaptability
- Quick Learning

- Responsibility & Accountability

Projects

POLARIS AI – Controversy Detection & Prevention

Tech Stack: Python, Streamlit, NLP, LLM APIs, Reddit API, Machine Learning

- Developed an AI-powered platform that analyzes the controversy level of statements and topics by examining online discussions, sentiment, audience polarization, and stance.
- Implemented a Polarization & Controversy Index (PCI) to quantify controversy and provide evidence-backed explanations using sentiment analysis, stance detection, and Reddit discussion insights.
- Built an interactive Streamlit dashboard that visualizes controversy scores and analytical results, enabling users to better understand public opinion and topic polarization.

Rentera — Peer-to-Peer Rental Marketplace Web Application

Tech Stack: HTML, CSS, JavaScript, Python, Django, SQLite

- Developed a rental marketplace connecting owners and renters, eliminating broker middlemen who inflate costs and create opacity.
- Built smart property verification, verified user roles, live chat, and rental history tracking to create a safer, more accountable housing ecosystem reducing fraud risk and improving trust between strangers transacting in an unregulated market.

Document Analyzer using YOLO

Tech Stack: Python, YOLO, PyTorch, OpenCV, Streamlit, NumPy, Pillow

- Developed an AI-powered document analysis system using a custom-trained YOLO model to detect and classify text regions, tables, and figures from images and PDF documents.
- Built an interactive Streamlit application that enables users to upload documents, perform real-time object detection, and visualize detected elements with annotated bounding boxes.
- Designed a modular architecture by separating detection, preprocessing, and utility components, improving maintainability and scalability for future enhancements.

CliffCart – E-commerce platform for climbing and trekking equipments

Tech Stack: HTML, CSS, JavaScript, Python, Django, PostgreSQL

- Built an e-commerce platform for climbing and trekking products.
- Implemented product catalog management, category-based browsing, search functionality, and detailed product pages to enhance user experience.
- Integrated user authentication, shopping cart, and secure checkout workflow to streamline the purchasing process.

Canteen Management System

TechStack: C++, Graphics Library, OOP

- Collaborated in a team to develop a graphical canteen management system that streamlined food ordering, billing, and menu management processes.
- Designed and implemented an interactive user interface using C++ graphics libraries, providing a more user-friendly experience compared to traditional text-based systems.
- Applied Object-Oriented Programming principles to create a modular and maintainable application structure.