

Shreya Uprety — Computer Engineering Student

Ghattekulo, Kathmandu – Nepal

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Technical Skills

Languages: Python, JavaScript, C++, C, Java, Assembly (8085/8086/8051)

Web Development: React.js, Flask, FastAPI, Django, HTML5, CSS3, Socket.IO

Machine Learning: Scikit-learn, PyTorch, TensorFlow, NumPy, Pandas

Databases: SQLite, SQLAlchemy, MySQL

DevOps & Tools: Git/GitHub, Docker, Makefile, JWT, WebSockets, CI/CD

Hardware Design: VHDL, Verilog, Vivado

Blockchain: Sui Move, Smart Contracts, NFT Development

Education

Institute of Engineering, Pulchowk Campus

Lalitpur, Nepal

Bachelor of Computer Engineering

2022–Present

Tribhuvan University

Relevant Coursework: Data Structures & Algorithms, Database Management Systems, Computer Networks, Software Engineering, Digital Logic, Microprocessors

Trinity International SS/College

Kathmandu, Nepal

Higher Secondary Education (+2 Science), GPA: 3.64/4.0

2019–2021

Focus: Mathematics, Physics, Chemistry, Computer Science

The New Summit Secondary School

Kathmandu, Nepal

Secondary Education Examination (SEE), GPA: 3.80/4.0

2019

Key Projects

ML Engineering & DevOps

Sentiment Analyzer Microservice

2025

- Designed and deployed a FastAPI microservice for real-time sentiment analysis, adhering to the 12-Factor App methodology.
- Achieved **94% accuracy** by optimizing pre-trained models and implementing robust error handling.
- Automated testing and deployment with a CI/CD pipeline using Makefile and GitHub Actions.
- Containerized the application using Docker for seamless deployment across environments.
- **Technologies:** FastAPI, Docker, Scikit-learn, Makefile, GitHub Actions, pytest

Repository: [GitHub Repository](#)

Full-Stack & AI Integration

Smart Notes Application

2025

- Built a real-time collaborative note-taking platform with advanced AI capabilities, including OCR for text extraction and speech-to-text conversion.
- Integrated AI-powered summarization to condense lengthy notes into concise, actionable points.
- Enhanced user experience with real-time synchronization using WebSocket technology.
- Implemented a secure backend with Flask and SQLAlchemy for data storage and retrieval.
- **Technologies:** Flask, Socket.IO, Tesseract OCR, WebRTC, SQLAlchemy, JavaScript

Repository: [GitHub Repository](#)

Full-Stack Web Development

Newspaper Website

2025

- Designed and developed a modern newspaper website with features such as user authentication, article publishing, and real-time news updates.
- Implemented category-based content organization and a responsive design for optimal user experience across devices.
- Integrated a commenting system to enhance reader engagement and feedback.
- **Technologies:** React.js, Node.js, Express, MongoDB, RESTful APIs

Repository: [GitHub Repository](#)

Enterprise Web Application

GradPath - Academic Management System

2024

- Developed a platform for managing graduate school applications with role-based access control and secure file uploads.
- Created interactive dashboards using Chart.js and implemented multi-user authentication.
- **Technologies:** React.js, Flask, MySQL, Bootstrap, Chart.js

Repository: [GitHub Repository](#)

FinTech & Machine Learning

StockSage - Financial Analytics Platform

2024

- Created a stock market prediction platform with data visualization and machine learning-based forecasting.
- Integrated live market data APIs and developed an interactive analytics dashboard for financial insights.
- **Technologies:** Flask, React.js, PyTorch, Chart.js, Alpha Vantage API, pandas

Repository: [GitHub Repository](#)

Leadership & Experience

Trinity International College

Kathmandu

Secretary, Social Club

2019–2021

- Organized social events, community outreach programs, and student engagement activities.
- Coordinated with volunteers to run awareness campaigns and charity drives.
- Increased club membership by 50% through inclusive and creative initiatives.

Trinity International College

Kathmandu

Vice President, IT Club

2019–2021

- Led coding competitions, technical workshops, and student project initiatives.
- Mentored junior students in programming fundamentals and project development.
- Increased club membership by 150% through innovative programming activities.

Certifications & Training

2025: Fusemachines AI Fellowship - Advanced Machine Learning and AI Applications

2023: DataCamp Data Science Professional Certificate - Python, Statistics, and ML

2023: Python with Django Web Development - Broadway Infosys Nepal

Volunteer Work & Community Service

2024: Technical Support Volunteer - LOCUS National Tech Festival, Pulchowk Campus

2023: Technical Support Volunteer - LOCUS National Tech Festival, Pulchowk Campus

2023: Community Health Volunteer - Blood Donation Drive, Pulchowk Campus

2021: Public Health Advocate - COVID-19 Vaccine Awareness Program, Trinity College

Additional Information

Languages: English (Fluent), Nepali (Native), Hindi (Conversational)

Interests: Music, Photography, Football, Cricket

Availability: Open to internships, part-time opportunities, and collaborative projects