

Roshna Shrestha

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INTRODUCTION

A Computer Engineering graduate with a passion for technology and a track record of turning ideas into working projects. I pick up new tools quickly, work well in a team, and am fully committed to growing into a professional who delivers real value.

EDUCATION

Bachelor in Computer Engineering 2022-2026
Department of Computer and Electronics
Himalaya College of Engineering, Chyasal

Higher Secondary Certificate 2021
Orchid College, Bharatpur-10
Obtained GPA : 3.22

Secondary School Certificate 2019
Small Heaven School, Kalyanpur
Obtained GPA: 3.35

SKILLS

- **Languages:** C, C++, JavaScript, MATLAB, Python, HTML, CSS
- **Web Technologies:** MERN Stack
- **Database:** PostgreSQL, MongoDB
- **Tools:** CodeBlocks, MATLAB
- **Core Knowledge:** OOP, Data Structures and Algorithms (DSA), AI/ML
- **Soft Skills:** Communication, Teamwork, Problem-Solving, Time Management, Adaptability

PROJECTS

- **AI-Generated Face Detection System**
Developed a deep learning-based face detection system using DenseNet-121 architecture to identify AI-generated faces. Implemented using PyTorch with Adam optimizer, achieving efficient feature extraction and improved classification performance.

- **E-commerce Bookstore (MERN Stack)**
Built a full-stack online bookstore application using MongoDB, Express.js, React, and Node.js. Implemented features such as user authentication, product management, shopping cart, and secure checkout system.
- **Text Summarizer using BERT**
Designed and fine-tuned a BERT-based NLP model for automatic text summarization. Improved contextual understanding and generated concise summaries for large textual data.
- **NFT-Based Ticket Selling Platform**
Developed a decentralized ticketing system using Solidity and MetaMask integration. Enabled secure and transparent ticket transactions using blockchain and non-fungible tokens (NFTs).
- **AI-Generated Video Detection System**
Built a hybrid deep learning model to detect AI-generated (deepfake) videos by combining spatial and temporal analysis techniques, enhancing detection accuracy for manipulated media.

EXPERIENCES

- **Blockchain fellowship in eSatya**
- **Organizer of the hackathon "Code Yatra"**
- **Digital SHE, RAN(2022)**
- **Mern Stack Training, HCOE**
- **Mobile App Development with flutter visual Internship, Excelerate(2025)**
- **Cybersecurity Training, HCOE**