

Education

COLLEGE OF SCIENCE AND TECHNOLOGY
Bachelor of Engineering in Software Engineering

Phuentsholing, Bhutan
July 2024 – June 2028

SHARI HIGHER SECONDARY SCHOOL
Bhutan Higher Secondary Education Certificate (BHSEC), Science Stream

Paro, Bhutan
December 2023

Projects

COLLEGE OF SCIENCE AND TECHNOLOGY
Undergraduate Student

Phuentsholing, Bhutan
July 2024 – June 2025

DEEP LEARNING & AI

Dzongkha Digit Classification

- Developed a deep learning model using TensorFlow/Keras to recognize Dzongkha digits, achieving 90% accuracy.
- Deployed the model on Hugging Face for public access, demonstrating scalability and user accessibility.

Animal Classification System

- Trained and fine-tuned 5 AI models (CNN, ResNet) to classify cats, dogs, and birds using custom datasets.
- Optimized hyperparameters, improving model performance by 15% through grid search.

WEB DEVELOPMENT

YouTube-Clone (Full-Stack)

- Led a 3-member team to refactor frontend (Next.js/React) and backend (Node.js/Express.js) code.
- Debugged API integration issues and enhanced rendering speed by 20%, improving user experience.

Lost and Found System

- Collaborated with a team to design a PostgreSQL database for a campus-wide system, optimizing query speed by 20% through indexing.

Skills & Interests

Technical:

- **Programming Languages:** Python (Primary), JavaScript, SQL
- **Deep Learning:** TensorFlow, PyTorch, CUDA, NumPy, Pandas, OpenCV, Hugging Face (NLP)
- **Web Development:**
 - **Frontend:** React, Next.js, HTML/CSS, JavaScript
 - **Backend:** Node.js, Express.js, Flask
- **Databases:** PostgreSQL, MongoDB
- **Tools:** Git/GitHub, VS Code, Figma, Google Colab, Render

Language: English (Fluent), Dzongkha (Native), Tshangla (Conversational)

Interests: AI Research, Computer Vision, Open-Source Contributions, Web Accessibility