

EDUCATION

- **Advanced College of Engineering and Management** Tribhuvan University
Bachelor of Engineering *April 2021 – Present*
- **Ambition academy** High School
Major: Physical Science *July 2019 – July 2021*

SKILLS SUMMARY

- **Languages:** C, C++, Python, HTML, latex
- **Proficiencies:** Medical Imaging, Deep Learning and Machine Learning, Computer Vision
- **Frameworks:** OpenCV, Tensorflow

ACADEMIC PROJECTS

- **Enhancing Ophthalmic Diagnostics Using U-Net for Cataract Detection** 2025
Minor project
 - Developed a deep learning model based on the U-Net architecture to identify and segment cataracts from medical images.
 - Integrated the model into a Flask-based backend for image upload, processing, and real-time segmentation mask generation.
 - Developed an intuitive frontend with custom CSS to display results nicely.
 - Technologies: Python, TensorFlow/Keras, OpenCV, Flask, HTML/CSS, JavaScript

PROFESSIONAL TRAINING & CERTIFICATIONS

- **LaTeX Technical Documentation Workshop** May 2024 – June 2024
Advanced College of Engineering and Management (ACEM)
 - Completed an intensive hands-on workshop focused on LaTeX-based academic and technical documentation.
 - Developed professionally formatted research papers, technical reports, and presentations using IEEE-compliant standards.
 - Gained practical experience in mathematical typesetting, figures, tables, cross-referencing, and BibTeX-based citation management.
- **AWS Cloud Computing Training** July 2025
Advanced College of Engineering and Management (ACEM) — Prixa Academy
 - Completed a one-month hands-on training program on Amazon Web Services (AWS) cloud computing.
 - Gained practical knowledge of cloud architecture, deployment models (IaaS, PaaS), and core AWS services.
 - Designed and managed scalable, secure, and cost-efficient cloud-based solutions relevant to modern software and AI system deployment.