

# Dipesh Thapa

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Tamghas, Gulmi, Nepal  
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## EDUCATION

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- **Advanced College of Engineering and Management** Tribhuvan University  
*Bachelor of Engineering* 2020 – 2025
- **Nepal Mega College** High School  
2017 – 2019

## SKILLS SUMMARY

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- **Languages:** Python, C++, Javascript
- **Proficiencies:** Computer Vision, Medical Imaging, Deep Learning, Machine Learning, and Natural Language Processing
- **Frameworks:** Pytorch, Django, Latex
- **Database:** SQL, MYSQL, PostgreSQL, and MongoDB

## EXPERIENCE

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- **Fusemachines AI Fellowship** Kathmandu, Nepal  
October 2024
- **Project Association for Computer and Electronics (PACE)** kathmandu, Nepal  
*President* March 2023 - Present
- **LOCUS Hardware Fellowship** Lalitpur, Nepal  
*Volunteer as Tutor* December 2022 - March 2023

## PROJECTS

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- **Multi-organ Segmentation of Abdomen using UNet and SegResNet**  
*Deep Learning and Developed WebApp using Flask*
  - Developed a deep learning model for automated **multi-organ segmentation** in medical images using **UNET and SegResNet architectures**. Utilized Python and PyTorch to improve segmentation accuracy, enhancing diagnostic capabilities and supporting medical research.
- **Recipe House**  
*Website for Recipe sharing*
  - A recipe management web application built using **Django**, enabling users to discover, create, and share recipes. The project features CRUD operations, advanced search capabilities, user authentication, and a responsive design using **HTML/CSS/Bootstrap**
- **Micromouse Maze Solving Robot**  
*Maze Solver*
  - Developed an autonomous robotic mouse for maze navigation using **C and arduino**. Implemented pathfinding and optimization algorithms, improving navigation efficiency and enhancing skills in robotics, embedded systems.

## CERTIFICATION

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- IOE Full Scholarship for the duration of the four-year undergraduate program
- IIT Bombay Techfest Cozmoclench Regional winner 2022
- IIT Bombay Techfest Micromouse Regional winner 2023
- LOCUS Beginner CTF Third winner 2023
- HexHimalayan CTF winner 2023

## LANGUAGES

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English - proficient, Hindi - conversational, Nepali - native