

Mahesh Chaudhary

Software Developer

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Education

Tribhuvan University, Institute of Engineering, Eastern Regional Campus
B.E in Electronics, Communication and Information Engineering

Dharan

05/2021 - 05/2025

Experience

Software Engineering Fellowship	TEJ Centre	Present
◦ Focused on full-stack development, system design, and collaborative real-world project building.		
Beta Microsoft Learn Student Ambassador	Microsoft	11/2023 - 05/2025
◦ Mentored aspiring students, conducted interactive sessions, and contributed to the growth of the local tech community.		
President	EXCESS	04/2024 - 05/2025
◦ Served in multiple leadership roles for 3 years, including President, Vice President and Executive Member, contributing to long-term organizational growth and continuity.		
◦ Led major technical events and collaborated with various tech societies to deliver technical trainings, student-led projects, and skill-building programs across software and hardware domains.		
University Lead	CS50xNepal	05/2024 - 05/2025
◦ Mentored 60+ students in AI/ML guiding them through hands-on learning, project support and real-world applications.		
◦ Conducted and mentored at X-Hack 3.0, a national-level CS50 AI Inspired hackathon guiding 100+ participants in developing AI-driven solutions.		
◦ Organized multiple mini-hackathons, technical workshops, and the CS50x Hackathon, driving student engagement, problem-solving, and project execution.		
Github Field Day Nepal 2024	National Tech UnConference	
◦ Engaged with tech leaders to discuss technical challenges, shared best practices, promote inclusivity, foster collaboration, and support sustainable student-led tech initiatives.		

Major Projects

Wireless-Based Human Activity Recognition

- Developed a WiFi-based Human Activity Recognition system using Channel State Information (CSI) with deep learning models (CNN, BiLSTM) to classify activities (standing, walking, jumping).
- Collected a custom dataset using ESP32 for CSI data acquisition.
- Designed a real-time dashboard to visualize activity recognition results.

Detection of Deepfakes: A Comparative Study Using ConvSwin Transformers and Fourier Transform Analysis

- Developed an advanced deepfake detection model integrating Convolutional Swin Transformer (ConvSwinT) for feature extraction and autoencoder-based latent representation learning.
- Implemented Fourier Transform-based analysis, leveraging high-frequency component extraction and Support Vector Classification (SVC) for deepfake identification.

Achievements

Full Stack Open	University of Helsinki	Certificate
◦ Completed a comprehensive full-stack web development course covering React, Node.js, Express, PostgreSQL, and modern web practices.		
◦ Applied skills through hands-on projects, demonstrating practical proficiency in building scalable web applications.		

Skills

Programming Languages: Python, C++, JavaScript,

Tools and Frameworks: ReactJS, NodeJS, Microsoft Azure, Python, Docker, PostgreSQL, Git & Github, L^AT_EX

Languages: Nepali (native), English (proficient)