

# Ashwin Dhakal

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## PROFILE

Expert in Robotics and Artificial Intelligence with an Undergraduate Qualification.

## EDUCATION

Tribhuvan University

*Dharan, Nepal*

**Bachelor's in Engineering** in Electronics, Communications & Information Engineering

2020 – 2024

- Relevant coursework in Object-Oriented Programming, Digital Logic, Microprocessor, Embedded Systems, Artificial Intelligence, Data Mining, Control Systems, Computer Organisation & Architecture and Information Systems.

## SKILLS

**Technical:** Arduino, Raspberry Pi, Machine Learning, Deep Learning, Python/C++ Programming, NLP and Computer Vision

**Tools:** Arduino IDE, VS Code, GNU/Linux OS, Jupyter Notebook, CMake, Numpy, TensorFlow, OpenCV, Matplotlib, Conda, Git

## EXPERIENCE

Electronics Communications Engineering Students' Society (EXCESS)

*Dharan, Nepal*

**Member**

2019 – 2024

- Involved with over 5 training campaigns for Robotics and Artificial Intelligence.
- Developed over 2 hardware projects and 5 programming and simulation projects.

Leo Club of Itahari Professionals

*Itahari, Nepal*

**IT Chief**

2021 – 2022

- Developed Leadership, Communication, Networking and Management skills.
- Took part in 20+ Events hosted by the organisation at Itahari.

Robotics Club of Purwanchal Campus

*Dharan, Nepal*

**Member**

2019 – 2020

- Participated in over 3 robotics training sessions and learnt the basics from the professionals.

## MAJOR PROJECTS

**AUTONOMOUS SURVEILLANCE ROBOT**

07/23 – 03/24

- Utilised Components like Raspberry Pi, Ultrasonic Sensors, Camera Modules and Motor Drivers.
- Based on the principles of Machine Learning and Object Tracking Algorithms.

**HAZARD GESTURES RECOGNITION WITH WHATSAPP MESSAGING**

01/24 – 03/24

- Applied Machine Learning algorithms and Computer Vision for Gesture Analysis.
- Used Web Selenium for sending a message with WhatsApp Messenger.

**RFID BASED BUS FARE MANAGEMENT SYSTEM**

07/22 – 06/23

- Designed the system with Arduino UNO as the central processing system with an RFID Sensor and Servo Motor.
- Combined the concept of RFID Tagging and Detection for controlling the door for fares.