

# Sandip Adhikari

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## EDUCATION

### Tribhuvan University

*B.E. in Electronics, Communication and Information Technology Engineering*

Kathmandu, Nepal

*2078 – 2081 B.S.*

## SKILLS

**Languages:** C/C++, Java, Python, JavaScript, TypeScript, SQL

**Technologies:** Node.js, React.js, Next.js, MySQL, MongoDB, Git, Docker, AWS, Kubernetes, Mediapipe, OpenCV

**Methodologies:** Agile, OOP, Functional Programming, DevOps

**Data Science/ Machine Learning:** Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, AI, ML

## EXPERIENCE

### Ameca Academy Of Innovation

*Robotics and IOT Mentor*

Pulchowk, Lalitpur

*December 2024 – Ongoing, Part-time*

- Conducted workshops and training sessions on IoT, robotics, and embedded systems for students in various colleges and schools.
- Mentored students on hardware-software integration using Arduino, Raspberry Pi, and various sensors for real-world applications.
- Provided guidance on OpenCV and computer vision concepts for robotics and automation projects.
- Assisted students in developing innovative projects involving AI, machine learning, and IoT solutions.

### KEC Robotics Club

*President (Jan 2025 – Ongoing) — Vice President (May 2024 – Jan 2025)*

Kathmandu, Nepal

*Full-time*

- Represented Nepal and Kathmandu Engineering College at **Techfest IIT Bombay 2024**, Asia's biggest tech festival, competing in the **RoboWar** event.
- Organized **Dristi 3.0**, the largest tech fest of Kathmandu Engineering College, featuring robotics competitions, workshops, and innovation showcases.
- Led the club's participation in **LOCUS TechnoFest** and other national-level competitions, fostering innovation and technical excellence.
- Served as a **Student Mentor at LOCUS 2023**, guiding participants in robotics, IoT, and hardware integration, and providing hands-on technical mentorship.
- Managed the club's social media presence to promote events, achievements, and technical outreach.
- Collaborated with industry professionals to conduct workshops, hackathons, and project exhibitions, enhancing student engagement and learning.

## AWARDS & ACHIEVEMENTS

**RoboWar, Robo Soccer Achievements:** Secured top positions in **RoboWar** and **Robo Soccer** competitions at prestigious events like **Techfest IIT Bombay 2024**, **Dristi 3.0**, and other national-level tournaments.

**Robo Soccer Competition:** Achieved **second position** in Robo Soccer competition organized by Engineering Vlogs.

**YANTRA 9.0:** Participated in **YANTRA 9.0**, a national-level robotics competition.

**Certifications:** Completed **Supervised Machine Learning** course by Coursera and **Deep Learning Specialization**, gaining expertise in AI and ML concepts.

## PROJECTS

### Virtual Mouse using Computer Vision |

- Virtual Mouse using OpenCV and media pipe ensures mouse control through hand gestures.

### WEB3 Blog Dapp |

- Solana based Blog decentralized app, using react js for frontend.

### Automatic PetFeeder |

- Automatic Petfeeder and IOT device used for the timely feeding to the pets and can be controlled through a device.