

# Curriculum Vitae

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Himal Acharya

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Technology

Assistant Professor

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A research enthusiast with proven skills in Computer Vision and Machine Learning. Graduated with a MSc degree in “**Information and Communication Engineering**” from the Institute of Engineering, Pulchowk Campus, Tribhuvan University, Kathmandu, Nepal.

## PROFESSIONAL EXPERIENCE

1. Feb 2017- present: Assistant professor at Department of Electrical and Electronics Engineering, Nepal College of Information Technology (Pokhara University), Lalitpur, Nepal
  - Carry out the class as well as laboratory lectures according to Pokhara University syllabus for subjects “Image Processing and Pattern Recognition”, “Signal Processing” and “Electronics Circuits”. Supervision of minor and major project works for undergraduate students.
2. Jan 2012 – July 2015: Assistant professor at Department of Electrical and Electronics Engineering, Nepal College of Information Technology (Pokhara University), Lalitpur, Nepal
  - The key responsibility carried out the class and laboratory lectures for subjects Filter Design, Analog Communications, Electronics Circuits.
3. Apr 2020 – Present: Python Programmer
  - Self Employed in Techxonia Inc. to build REST APIs using Python for android app launched in play store in May 2022.

## EDUCATION:

1. MSc in Information and Communication Engineering  
Tribhuvan University, Institute of Engineering, Pulchowk Campus, Nepal  
April 2017- May 2019

Major Subjects: *Color Image Technology, Image Processing, Machine Learning & Pattern Recognition*

Average: 85.93 %

2. Bachelors in Electronics and Communication Engineering  
Tribhuvan University, Western Region Campus, Pokhara, Nepal (Nov 2007- Nov 2011)

Major Subjects: *Analog and Digital Signal Processing, Communication Systems, Electronics Circuit*

Average: 76.26 %

## PROFESSIONAL INVOLVEMENT

- Supervision of minor as well as major project works for 8 years' of professional experience
- Backend Developer for android app to build REST APIs
- Member of Nepal Engineering Council ( Regd No. 3025, Electronics and Communication 'A' category)
- Member of Nepal Engineers Association

## AWARDS, SCHOLARSHIPS:

Nov 07- Nov 011      University Fellowship for Undergraduate study  
- Study Bachelor's Degree in regular program ( full scholarship in tuition fee and educational support) provided by Tribhuvan University

Nov 07- Nov 011      University Scholarship for Class Topper  
- Ranked top 1 out of 48 students in a class for four years; Received Class Topper Scholarship provided by Tribhuvan University

## PUBLICATIONS:

### International Journals:

Acharya, H., & Joshi, B. (2021). Abnormal motion pattern detection in video sequences by an unsupervised approach. *Engineering and Applied Science Research*, 48(5), 509–517. Retrieved from <https://ph01.tci-thaijo.org/index.php/easr/article/view/241494>

### National Journals:

H. Acharya, "Travel Time Estimation for Pedestrian with GPS Cell Phones as Probes", *kjem*, vol. 1, no. 1, pp. 27-30, Dec. 2018.

### Conferences:

H. Acharya, Basanta Joshi, " Vision Based Motorcycle Monitoring at Intersection of Nepal Roads", *Proceeding of 9<sup>th</sup> National Students' Conference on Information Technology (NaSCoIT 2018)*, December 29, Kathmandu, Nepal

H. Acharya, Basanta Joshi, "Abnormal Motion Pattern Detection in Surveillance Video Sequences by Clustering Approach, 6<sup>th</sup> IOE Graduate Conference, May 24-25,

2019, Lalitpur, Nepal

## PROJECT/ THESIS WORK:

- H. Acharya, “Abnormal Motion Pattern Detection in Video Sequences by Unsupervised Approach”, MSc Engg, Pulchowk Campus, Tribhuvan University, 2019. (Masters Thesis)
- H. Acharya, “Automatic Rescue Robot”, Bachelor of Engineering, Tribhuvan University, 2011. (Undergraduate Project)

## SKILLS:

- Python, FastAPI, Pandas, Numpy, Git