

# BISHWO ADHIKARI

## Doctoral Researcher at Tampere University, Finland

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📍 Tampere, Finland



## EXPERIENCE

### Doctoral Researcher

#### Tampere University

📅 Jan 2019 – Ongoing

📍 Tampere, Finland

- Research topic includes cost-efficient semi-automate image annotation and light-weight object detection.
- Image data collection, object labeling, training state-of-the-art object detection algorithms on environment-specific self-collected datasets.
- Manuscripts publication in peer-reviewed journals/conferences.
- Teaching Assistant on Computer Vision and Machine Learning courses.

### Researcher & Research Assistant

#### Tampere University of Technology

📅 Oct 2017 – Dec 2018

📍 Tampere, Finland

- Implemented multiple object detection frameworks on low-resourced devices such as Raspberry Pi, Jetson Nano & Neural Computing Stick.
- Data collection and labeling for deep learning based object detection training.
- Completed human detection project on constrained mining environment at Sandvik Mining and Construction Oy.
- Worked as teaching assistant on undergraduate courses.

### Project Manager & Developer

#### Demola

📅 Jan 2017 – May 2017

📍 Tampere, Finland

- Lead team of 5 members.
- Worked as main programmer & developer for the Privacy assurance document management system prototype for M-Files Inc.

### Junior Developer

#### SkrollIX

📅 Oct 2015 – Aug 2016

📍 Kathmandu, Nepal

- Duties involved Web development, content creation for digital marketing and documentation.

## PUBLICATIONS

### 📄 Published

- Adhikari, B. and Huttunen H. (2020). "Iterative Bounding Box Annotation for Object Detection". In: *International Conference on Pattern Recognition (ICPR 2020)*.
- Adhikari, B., Peltomaki J., et al. (2018). "Faster Bounding Box Annotation for Object Detection in Indoor Scenes". In: *EUVIP*.

## SKILLS

Python MATLAB Java R SQL  
TensorFlow PyTorch Keras

Machine Learning Deep Learning  
Object Detection Signal Processing  
Image Processing Data Analysis

Linux Windows MacOS  
Version Control AWS Azure

## LANGUAGES

Nepali  
English  
Finnish



## EDUCATION

### M.Sc. in Information Technology

#### Tampere University of Technology

📅 2016 – Jun 2018

📍 Tampere, Finland

- Major in Data Engineering and Machine Learning
- Minor in Signal Processing
- Degree with Distinction
- Recipient of Graduation Award

### B.E. in Information Technology

#### Centria University of Applied Sciences

📅 2011 – May 2015

📍 Kokkola, Finland

- Major in Information Technology
- Minor in Media and Communication
- Recipient of Graduation Award

## REFEREE

### Heikki Huttunen

@ VISY OY

✉ heikki.huttunen(at)visy.fi

### Associate Prof. Esa Rahtu

@ Tampere University

✉ esa.rahtu(at)tuni.fi