

# Santosh Adhikari

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PASSIONATE AND SELF DRIVEN MACHINE LEARNING ENGINEER WITH 4+ YEARS OF EXPERIENCE WHO EXCELS AT DEVELOPING MACHINE LEARNING POWERED SOFTWARE SYSTEMS AND APPLICATIONS

## EDUCATION

### UNIVERSITÉ DE BOURGOGNE

#### M2: MASTERS IN HEALTH-AI

July 01, 2022 - Sept 6, 2024 | Dijon, France

#### M1: MASTERS IN COMPUTER VISION AND ROBOTICS(VIBOT)

Sept 6, 2022 - Jun 6, 2023 | Le Creusot, France

### TRIBHUVAN UNIVERSITY

BACHELOR IN ELECTRONICS AND COMMUNICATION ENGINEERING  
2014 - 2018 | Kathmandu, Nepal

## SKILLS

### PROFICIENCY

- Python • Tensorflow • Pytorch • Keras
- Flask-API • FAST-API
- Numpy • Pandas • Opencv
- Docker • AWS EC2, S3
- MongoDB • PostgreSQL
- Socket-Programming • QT • Tkinter
- GIT • Linux

### FAMILIARITY

- C++ • C • Django • Kubernetes • Assembly language • Bash Script

## RESEARCH PAPERS

- TOMATO PLANT DISEASES DETECTION SYSTEM USING IMAGE PROCESSING) [Paper](#)
- Virtual Try-on using Image Translation [Paper](#)

## ACHIEVEMENTS

- Second winner at ActInSpace Hackathon, Besançon 2022
- **President** of Robotics Club ROBOKATH 2017-2018
- 1st runner-up in Hex-Software competition 2017
- Selected in startup incubation(Kathmandu Maker Faire 2016) [News](#)

## EXPERIENCE

### CONDUCT SCIENCE INC | COMPUTER VISION ENGINEER

Aug 2023 - Current | Remote

- Spearheading the development of a Rodent Behavior Analysis Tool, employing deep learning for object tracking and sequence classification models.

### PARLAPP | MACHINE LEARNING ENGINEER

May 2022 - June 2023 | Remote

- Designed and implemented scalable ML APIs and background workers for social knowledge-marketplace where users can communicate with people having similar passions.
- Build query to tag algorithm through which top N heterogeneous tags can be retrieved from thousands of data points.

### IKEBANA SOLUTIONS LLC | S. COMPUTER VISION ENGINEER

Nov 2018 - Sept 2022 | Kathmandu, Nepal

- Designed, trained, and deployed variants of deep learning models for many industrial applications like satellite image segmentation, Face recognition based attendance system, object tracking & re-identification, background removal, information retrieval from documents and activities classification
- Build CCTV based vehicle detecting and tracking application for SoftBank 5G network project

## TECHNICAL PROJECT

### DROWNING PREVENTION SYSTEM [PROJECT](#)

- Worked as ML project lead to build IoT based drowning prevention system that can detect and track people drowning inside swimming pool.

### VIRTUAL TRY ON 2D [DEMO VIDEO](#)

- Build a virtual try on application using Generative Adversarial Network(image translation) where users can try desired cloth virtually on 2D image of their body

### URINE STRIPE ANALYSER [DEMO VIDEO](#)

- Developed mobile app to approximate urine test strip parameters using image processing
- Tech stack: Android, Opencv, Java

### TRAFFIC DENSITY MEASUREMENT [DEMO VIDEO](#)

- Trained object detection and tracking application for measuring vehicle flow and deployed in embedded device to control the signal of traffic light

### MASS SURVEILLANCE ON VIDEO DATA

- Build surveillance system with following features: Face detection/recognition, facial mask detection, human activities classification, person re-identification, attribute classification, object search/tracking, age/gender/emotion classification