

Santosh Adhikari

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EDUCATION

UNIVERSITÉ DE BOURGOGNE
MASTERS IN COMPUTER VISION AND
ROBOTICS(VIBOT)
2022-2023 | Le Creusot, France

TRIBHUVAN UNIVERSITY
BACHELOR IN ELECTRONICS AND
COMMUNICATION ENGINEERING
2018 | Kathmandu, Nepal

SKILLS

PROFICIENT WITH

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

FAMILIAR WITH

- 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

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**
- 1st Runner-up in Hex-Software competition

EXPERIENCE

PARLAPP | MACHINE LEARNING ENGINEER

May 2022 - Current | Remote

- Build scalable search algorithm for heterogeneous query to tag search
- Worked on User-Match algorithm based on user's tag and profiles embedding
- Build ML API for social knowledge-marketplace that can handle thousands of requests at a time

IKEBANA SOLUTIONS LLC | S. COMPUTER VISION ENGINEER

Nov 2018 - Sept 2022 | Kathmandu, Nepal

- Build camera based drowning prevention system in raspberry pi by using human detection, tracking and activities classification models. Integrated twilio and google Firebase for sending notifications to user, S3 bucket for clips storage and, RTMP and Socket for Streaming **Project**
- Build attendance system using facial recognition for 350+ employees and integrated gesture based user interface for dashboard navigation
- Worked on information extraction from Japanese leaflet document
- Build CCTV based vehicle detecting and tracking application for SoftBank 5G network project

TECHNICAL PROJECT

DROWNING PREVENTION SYSTEM

- Worked as ML project lead to build IOT based drowning prevention system that can detect children near swimming pool and send notification to user through SMS and push notification on app.

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.