



Sushan Kattel

Summary

I am a final year student in Electronics and Communication Engineering with a great passion for Machine learning and data science. I aim to help solve real world problems using technology. I am always open to work as part of a team, to follow corporate plans and goals, and continue my growth as an ambitious and dynamic individual. I am good at time management, adhere myself to deadlines and aslo perform well under pressure.

Contact info

Mobile:

+977-9862699011
+977-9814936832

Email:

sushan074bex@ioepc.edu.np
sushankattel@gmail.com

LinkedIn:

www.linkedin.com/in/sushan-kattel/

GitHub:

<https://github.com/SushanKattel>

Address:

Permanent: Birtamode-07, Jhapa
Temporary: Hattiban, Lalitpur

Projects Involved

• Deepfake video detection using DFT

- I've worked as a freelance in group project which detected whether a video is original or deepfake. It worked pretty well on high resolution face dominant videos.

• Recommendation System for social media

- Created a recommendation system for a social media that recommend similar feeds to users, recommends whom to follow and gives recommendation about therapist based on age, diagonosis and location and deployed using flask.

• Predicting Handwritten Devanagari Characters using modified-Lenet Model Architecture

- Published a preprint on ResearchSquare. Link: <https://www.researchsquare.com/article/rs-2137648/v1>

• Computer vision based robotic arm

- A 3d printed robotic arm that implements inverse kinamatics and openCV to detect, localize, pick and drop red colored circular objects from the workspace based on feed from webcam. This can be found here : <https://fb.watch/irx9LWzk4W/>

• Tomato leaf disease prediction using CNN

- Predicts 10 classes of leaf disease on tomato leaves, trained on plantVillage dataset of kaggle

• Trainer

- Basic Python training organized by Robotics Club, Purwanchal Campus
- Basic Microcontroller training organized by EXCESS, IOE PC
- Training Facilitator for IOT training organized for Bsc.CsIT by Dept. of electronics & computer, IOE-Purwanchal Campus at MMAMC, Biratnagar

Skills

- OpenCV in Python
- Linux Terminal
- SQL
- ML and Deep learning with Python
- Natural Language Processing
- Git and Github
- Basics of Robotics and IOT

MOOC Certifications

- Deep Learning Specialization from Coursera
- Basics of Natural Language processing and Medical Image processing from Coursera

Academic History

- **IOE Purwanchal Campus, Dharan BEX** | 2017-present

- **Shree Devi H.S.S, Birtamode +2** | Science Stream | 2015-2017

- **Laligurans English School, Birtamode** School Leaving Certificate | 2014

Experiences

- **Bitpoint Technologies**
AI/Data Engineer
Contract Based for Recommendation System
- **Robotics Association Of Nepal**
Head of Research and Development
Jun 2022 | Jan 2023

Interests

- Research and innovation
- Image Processing
- Big Data Analysis
- Machine Learning
- Data Science
- Robotics
- Programming and bug fixing

Associations

- **President** | Electronics and Comm. engineering students society (EXCESS), Purwanchal Campus
- **Member** | Robotics Club, Purwanchal Campus
- **Member** | Robotics Association of Nepal

Languages

- **Nepali**
- **English**
- **Hindi**

References

- **Er. Manoj Kr. Guragain** | HOD | Dept. of electronics and computer, Purwanchal Campus
mkguragai@gmail.com
9842033385
- **Er. Deependra Neupane** | Mentor | Robotics Club, Purwanchal Campus
deependran.neupane@gmail.com
9846642367
- **Er. Bikash Gurung** | President | Robotics Association of Nepal
ran.bikashgurung@gmail.com
9851208879
- **Er. Bikram Aryal** | CEO | Bitpoint.
9849833643