

# Sumit Yadav

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## EDUCATION

- Pulchowk Engineering College** Kathmandu, Nepal  
*Bachelor of Computer Engineering;* Running(8th Sem.)  
*Courses: Operating Systems, Data Structures, Data Mining, Artificial Intelligence, Machine Learning, Networking, Databases*

## SKILLS SUMMARY

- Languages:** Python, C, C++, JavaScript, Bash
- Online Courses:** Deep Learning and GAN Specialization, Generative AI LLM, Image Understanding TensorFlow GCP
- Frameworks:** Pytorch, Scikit, NLTK, TensorFlow, Keras, Numpy
- Tools:** SSL, Matplotlib, GIT, Wolfram Alpha, MySQL
- Platforms:** Linux, Heroku, Windows, Arduino, Raspberry, AWS, GCP
- Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

## EXPERIENCE

- PDSC(Plan Design Solve Create)** Lalitpur  
*Software Coordinator (Full-time)* May 2022 - 2023
  - Project Management:** Supervising the project and research related to Data Science.
- DeepLearning.AI** Remote  
*GAN Mentor (Part-time)* Aug 2021 - Present
  - Course - GAN Specialization:** Helping the student in understanding the key concept behind Unsupervised learning (GAN).
- NTBNS** Lalitpur  
*Instructor-Mentor (7 Days workshop)* (2022-2023)
  - Course - C Programming:** Instruct about programming language from basic to Advance level programming in C.
- Robotics Association of Nepal** Lalitpur  
*AI and Robotics Member (Part-time)* 2020 - 2021
  - Making Robotics based system:** Done research and project related to Computer Vision based on raspberrypi microcontroller.

## PROJECTS

- IRB (Image Recognition Based) Robotics Arm (Image Processing, Signal Processing, Actuator Control):** Research oriented, open source, Project under UN's SDG3 - Good Health & Well-Being. Tech: Python, Arduino Programming, Arduino Toolkit, TensorFlow (May '2020)
- Microsoft Rice Disease Classification Challenge (Computer Vision):** AI model to classify Rice plant disease & fastly and efficiently. Powered by ZINDI, LB score 0.077 and LB Position 40. Tech: Python, Transformer(timm), Pytorch, Boosting Algorithm & Transfer learning. (August '2022)
- Nepali Language (Devanagari Classifier, Nepali Sentiment Classifier, Nepali OCR Nepali Poem Generator):** In devanagari letter classifier trained vgg16 model(acc. 0.94), To test accuracy of Nepali Language Transformer, i use nepali sentiment analysis score after fine tuning, and a simple OCR based on API of easyOCR Tech: Keras, Transformer, Pytorch, TF-IDF, NLTK (Past 2 Years)
- Unsupervised Model (VAE, GAN, C- GAN, AC-GAN, DC-GAN):** Research oriented, Project for learning the behaviour of laten space and image manipulation. Tech: Python, Numpy, Tensorflow (Sep, 2021)
- NEPSE Simple(Web Development, Web Scraping, Telegram Bot):** Created from scratch a nepal stock market data and present it in minimal enviroment constraint. Tech: Github Workflow, Automation in Scraping , HTML, CSS, WebSockets, JavaScript, RSS, XML ( Since 2020)

## HONORS AND AWARDS

- Winner of GritFeat AI Hackathon 2023, Locus - Feb, 2022,(SWIFT' is a wearable devices with hardware and AI models that detect falls in elderly people with 0.7986 accuracy, resulting in immediate emergency alerts to contacts.)
- First RunnerUP of Dataverse, Locus - Jan, 2022,Dataverse Solution (NLP pased problem to classify abstract.)
- Winner of Best AI Project of Deltathon, DELTA 3.0 - Jan, 2022,Nepali Harvest (Designed a portal to help farmers that can predicting diseases, identifying optimal harvest times, and aiding with crop health assessment.)
- Winner of Image Challenge, IT-Meet UP KU - Sep, 2022 (Have to train AI model to classify image of Ballot paper.)
- Winner of Capture The Flag, LogPoint - Feb, 2022 (Tasked of finding information and exploiting a binary file.)
- Runner's Up at DATARUSH by DOCSUMO - Feb, 2022 (NLP based model for classifying Abstract into Classes.)

## SOCIAL EXPERIENCE

- Joint Secretary at NTBNS Student Clubs, IOE, Pulchowk Campus** Lalitpur, Nepal  
*Conducted online and offline technical & soft-skills training impacting over 3000 students.* Jan 2020 - Dec 2021
- Joint Secretary of Sarswati puja Committe Pulchowk Campus** Kathmandu, Nepal  
*Organized online and offline cultural Program.*