

Sumit Yadav

Portfolio: sumityadav.com.np

Github: github.com/rockerritesh

Email: 076bct088.sumit@pcampus.edu.np

Mobile: +977-9819856148

LinkedIn: linkedin.com/in/rockerritesh

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
- **Tools:** SSL, Matplotlib, GIT, Wolfram Alpha, MySQL
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

EXPERIENCE

- **Ed-Acadia** Lalitpur
Chief Data Officer (Full-time) *May 2022 - 2023*
- **PDSC(Plan Design Solve Create)** Lalitpur
Software Coordinator (Full-time) *May 2022 - 2023*
- **DeepLearning.AI** Virtual
GAN Mentor (Part-time) *Aug 2021 - Present*
- **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), Nepali sentiment analysis using Devanagari Based Model, 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 latent space. Tech: Python, Numpy, Tensorflow (Sep, 2021)
- **NEPSE Simple(Web Development, Web Scraping, Telegram Bot):** Presented nepal stock market data in minimal environment constraint. Tech: Github Workflow, Automation in Scraping WebSockets, JavaScript, RSS, XML (Since 2020)

PUBLICATIONS

- **SUPPORT VECTORS ARE A BETTER WAY OF TEXT CLASSIFICATION FOR IMBALANCED DATA:** Present a robust SVC method for text classification (100+ classes) using termfrequency vectorization, achieving superior test data results over neural network.
- **Machine Learning Analysis of Tirhuta Lipi:** Achieved 0.97 accuracy in Tirhuta Lipi character recognition using mobile net embedding and logistic regression, with applications in translation and OCR for low-resource languages.

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 based 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 technical training & Organized nepal largest sarswati puja Program. *Jan 2020 - Present*
- **Tutor of Children In Technology- WorldLink** Nepal
Aware the student about Risk and Safety of Internet. *Nov 2023*