Sumit Yadav

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Education

- **Pulchowk Engineering College** — Kathmandu, Nepal
  Bachelor of Computer Engineering; — *Running*
  Courses: *Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases*

Skills Summary

- **Languages**: Python, C, C++, JavaScript, Bash
- **Online Courses**: Deep Learning Specialization, GAN Specialization, Image Understanding TensorFlow on 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 - Present*
  - **Project Management**: Supervising the project and research related to Data Science.
  - **Web based Upgrades**: DNS mapping & API based service calling in Frontend.
- **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 (Part-time) — *7 Days workshop(2022)*
  - **Course - C Programming**: Instruct about programming language and 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 SDG 3 - Good Health & Well-Being. Tech: Python, Arduino Programming, Arduino Toolkit, TensorFlow (May '20)
- **Microsoft Rice Disease Classification Challenge (Computer Vision)**: AI model to classify Rice plant disease & fastly and efficently. Powered by ZINDI, LB score 0.077 and LB Postion 40. Tech: Python, Transformer(timm), Pytorch, Boosting Algorithm & Transfer learning. (August '22)
- **Nepali Language (Devanagari Classifier, Nepali Sentiment Classifier, Nepali OCR)**: In devanagari letter classifier trained vgg16 model(acc. 0.83), To test accuracy of Nepali Language Transformer, i use nepali sentiment analysis score after fine tunning, 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 manupulation. Tech: Python, Numpy, Tensorflow (Sep, 21)
- **NEPSE Simple(Web Development, Web Scraping, Search)**: 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 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.