Srija Uprety

Machine Learning
Computer Vision

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EDUCATION

Trinity International College Kathmandu, Nepal
Computer Science and Information Technology 2018 – 2022

The Times International College Kathmandu, Nepal
Physical Science 2015 – 2017

Paragon Public School Kathmandu, Nepal
2015

SKILLS

Python

Machine Learning

Deep Learning

Computer Vision

Docker

EXPERIENCE

Bottle Technology Jhamsikhel, Lalitpur
Machine Learning Engineer Trainee 2022-2023 (8 months)

- Used yolov7 for object detection and implemented it on Jetson Nano.
- Performed Line segmentation for detecting license plate characters using Horizontal Projection Profile.
- Implemented image preprocessing techniques like otsu binarization, Niblack algorithm, Morphological processing.
- Deployed applications on Docker.

Fusemachines AI Fellowship Kathmandu, Nepal
Microdegree 2022 – 2023

I was selected as one of the 100 participants from a pool of thousands of applicants to join a prestigious year-long AI fellowship program. This program focused on providing comprehensive training and education in cutting-edge AI technologies such as Machine Learning, Deep Learning, and Computer Vision.

- Machine Learning
- Deep Learning
- Computer Vision

REFERENCES

Sushant Chalise
TA at Pulchowk Campus
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Abhishek Dewan
Program Coordinator
abhishek.dewan@trinitycollege.edu.np

Sangam Khanal
RA at Jeonbuk National University
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PROJECTS

Growing Neural Cellular Automata
Tools used: Python, Tensorflow, Gradio

- A system that enables the generation of intricate structures in three dimensions, as well as simulating the development of multicellular structures starting from a single cell.

Time Series Analysis
Tools used: Python, Jupyter Notebook, Keras, Sklearn, TensorFlow

- The major objective of this project was to enhance the deep learning models (by hyper parameter optimization) that could potentially perform well in prediction problems like value of stocks. Models like ARIMA and LSTM is used to simulate the predictions of stocks with longitudional data.

Image to text converter
Tools used: Python, Tesseract, Django

- The objective of this project is to develop a tool that enables the conversion of images into editable text. By combining these technologies, we strive to provide a user-friendly solution for effortlessly transcribing information from images into editable text format.

RESEARCH

Evaluation of hybrid models to estimate forecasting accuracy of daily global solar radiation: A case study of parbat, Nepal

- This research aims to contribute to the understanding and application of solar energy forecasting. The findings have the potential to inform decision-making processes related to solar energy utilization, particularly in regions like Nepal, where harnessing solar energy effectively can play a significant role in meeting the growing energy demands sustainably.