

Contact

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Top Skills

Python (Programming Language)
TensorFlow
Keras

Publications

Real-time Detection and Prevention
of Phishing Attacks using
LINKGUARD

Automated Construction Monitoring
of Infrastructure Using Temporal
UAV Data

Ashish Maharjan

Former Intern at North Eastern Space Applications Centre (NESAC)
Lalitpur

Summary

Computer Science Engineer with experience in deep learning frameworks like TensorFlow and Keras. Intermediate knowledge of python programming language and its libraries such as NumPy, pandas, matplotlib, sci-kit learn and Django web framework.

Experience

North Eastern Space Applications Centre (NESAC)

Research Intern

August 2019 - July 2020 (1 year)

Ri-Bhoi district, Meghalaya, India

North Eastern Space Applications Centre (NESAC) is a government administration company based out of Department of Space, Govt. of India, Umiam, Meghalaya, Umiam, Meghalaya, India.

Responsibilities include:

- Implemented a Convolutional Neural Network based on Faster R-CNN and SSD MobileNet framework for detecting potholes
- Modified pothole detection model by adding DeepSort algorithm to track and count the number of potholes
- Converted the pothole detection model to Tensorflow Lite for deploying it into the Raspberry Pi
- Developed a Convolutional Neural Network based on U-Net architecture for detection buildings from satellite images
- Applied transfer learning in Building Detection Model to increase its accuracy and Intersection over Union (IoU)
- Used Computer Vision Techniques for generating 3D models of construction sites
- Integrated 3D model into GIS platform for measuring the progress of the construction sites

Education

Sikkim Manipal University, Gangtok, India

Master of Technology - M.Tech, Computer Science and
Engineering · (2018 - 2020)

Visvesvaraya Technological University

Bachelor of Engineering - B.E, Computer Science and Engineering
· (2014 - 2018)