Shivam Kaushik

Machine Learning Engineer

EXPERIENCE

Indian Space and Research Organisation (ISRO) / General Research and Deep Learning Intern MARCH 2019 - SEPTEMBER 2019

- Worked on Neural Architecture Search. The project was to automatically search the efficient model for a given dataset. HyperOpt algorithms like HyperBand and Bayesian Optimisation of HyperBand were used to find best hyperparameters and network architectures.
- DARTS was used and adapted for dense image prediction. DARTS was combined with UNET to find a model that worked best on Satellite Data.
- MorphNet was also implemented to optimise the searched network.

Trulymadly MatchMakers Private Limited (Delhi) / Backend Developer
JUN 2018 - AUG 2018

- Worked on the backend of an app called using Node.js (Sails).
- Developed a multilingual real-time video chat app.

PROJECTS

Darts-Unet(Research Project)
Research Project for automatically search high performance cell architecture for semantic segmentation. Currently DARTS is for object detection only. It is being adapted to semantic segmentation.

Implementation of Spaced Repetition through Machine Learning

This project aims to tackle the problem of forgetting the facts. In short, we are determining the probability of remembering a fact at a particular time.

OMR Scanner
Scanning OMR requires special hardware but in this project, we used OpenCV to detect and evaluate the marked bubbles.

EDUCATION

Maharaja Agrasen Institute of Technology / Bachelor of Computer Science (B.C.S.), Computer Science & Engineering (2015 - 2019)

Percentage: 75.00%.

SKILLS

- Python
- Tensorflow & Pytorch
- Open CV
- MongoDB & Postgres
- Node Js
- React JS
- Ruby on Rails
- Html, CSS and JS

ACHIEVEMENTS

In Top 11% in 2019 Data Science Bowl at Kaggle

Got selected for ISRO internship during Smart India Hackathon.

2nd Runner Up in NSIT Fintech Hackathon

Silver Medalist in Computer Olympiad

LANGUAGES

English

Spanish (Beginner)

Hindi