Shivam Kaushik

Data Scientist and
Web Developer

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Links

Github:// **mythrex**
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Skills

OS
GNU/Linux

LANGUAGES
Python, javascript

FRAMEWORK
Flask, FasstAPI,Node.js,
Vue.js

DEEP-LEARNING
Tensorflow, Pytorch, numPy, OpenCV

Coursework

Linear Algebra, Multivariate Calculus
Intro to Information Theory
Data Structures, Algorithm
Operating Systems
Machine Learning
Deep Learning Specialization
Convolutional Neural Networks
Sequence Models

Education

2015-2019
B.TECH. IN CSE
Guru Gobind Singh Indraprastha University
CGPA : 8.05/10

2014-2015
SR. SECONDARY
Maharaja Agrasen Model School
Percentage: 90.0%

Languages

Spanish, English, Hindi

Experience

MARCH 2019-SEPT 2019 **Indian Space and Research Organisation (ISRO)**
Deep Learning Intern

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.
Differential Architecture Search (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.

Pytorch, , Numpy, Scipy

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

Developed on real-time group chat app made using nodejs.
The development was taken from scratch to first public release.

NodeJS, MongoDB, SailsJS

Project / Blog

2020 **Dreaming over Text** **Deep Learning**

A Blog explaining how can deep-dream can be implemented on text data. And how can it be interpreted. Like deep dream in the image, what if we take any hidden layer activation and try to increase its norm, what will happen to the text input?

2019 **Darts-Unet(Research Project)** **Deep Learning**

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.

2018 **OMR Scanner** **Web, Image Processing**

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

Achievements/Awards

2019 **Data Science Bowl** **Top 11%**

Data Science Bowl is the world's largest data science competition focused on social good.

2018 **Smart India Hackathon** **Finalist**

This nationwide hackathon was hosted by ISRO, challenged contestants to provide a solution to tree-detection, road segmentation on ISRO dataset. We were selected the only team for internship at ISRO.

2017 **NSIT Fintech Hackathon** **2nd Runner Up**

The solution was to connect property owners and load lenders.