## **Shivam Kaushik**

**Data Scientist** 

## Links

Github:// mythrex LinkedIn:// shivamkaushik73

### **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: 7.99/10

2014-2015 SR. SECONDARY Maharaja Agrasen Model School

Percentage: 90.0%

## Languages

Spanish, English, Hindi

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## **Experience**

# MARCH 2019-SEPT 2019 Indian Space and Research Organisation (I.S.R.O.) Deep Learning Intern

Worked on Neural Architecture Search. Developed a Novel architecture for segmentation tasks. Differential Architecture Search (DARTS) was adapted for dense image prediction.

Hyper Opt algorithms like Hyper Band and Bayesian Optimisation of Hyper Band (BOHB) were used to find best hyper parameters and network architectures.

Pytorch, , Numpy, Scipy

## JUN 2018 - AUG 2018 Trulymadly Matchmakers Private Limited (Delhi) Back-end 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 Open-CV 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 Fin-tech Hackathon

2nd Runner Up

The solution was to connect property owners and load lenders.