

# Shivam Kaushik

Research Engineer

Begaluru

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## Links

Github:// [mythrex](#)

LinkedIn:// [shivamkaushik73](#)

## Skills

### DATA SCIENCE

Linear Regression, Logistic Regression  
Hypothesis Testing, Decision Trees  
Random Forest, Boosting Trees  
T-test, Bland Altman plots, CNN, RNN

### FRAMEWORKS

Pytorch, Tensorflow  
sklearn, FastAPI, Node.js, Vue.js

### OTHER

DVC, Git, AWS

## Relevant Coursework

### Linear Algebra, Multivariate Calculus

Probability, Intro to Information Theory  
Machine Learning Data Structures &  
Algorithms

### 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

English, Spanish, Hindi

## Experience

OCTOBER 2020-PRESENT **Origin Health.ai**

**Research Engineer**

Worked extensively with medical image data. Setup dataset pipeline for data team and training pipelines for research team. Developed light traditional computer vision algorithms for classification tasks. Developed end to end hosted system for imprint removal from ultrasound images. Successfully conducted clinical validation study (employing 10 doctors) of developed segmentation and classification algorithms in real-world setting.

MARCH 2019-AUG 2019 **Indian Space and Research Organisation (I.S.R.O.)**

**Deep Learning Intern**

Worked on Neural Architecture Search (NAS) and hyperparameter optimisation. Developed offline system for hyperparameter optimisation and improved performance of NDVI prediction task by 2%. Implemented and adopted DARTS for semantic segmentation and obtained comparable performance with previous state-of-the-art networks.

JUN 2018 - AUG 2018 **Trulymadly Matchmakers Private Limited (Delhi)**

**Back-end Developer**

Developed backend for a real time communication app using Node.js within 2 months of internship

## Project / Blog

2020 **Intuitive Explanation of DARTS**

**Deep Learning**

A blog containing an intuitive explanation of math behind this influential paper. The paper is based on bi level optimisation and some workaround to reduce computation time.

2020 **Dreaming over Text**

**Deep Learning, Pytorch-lighting**

A mini-research turned into blog explaining how can deep-dream can be implemented on text data. And how can it be interpreted. Answering question like: "What if we take any hidden layer activation and try to increase its activations. What will happen to the text input?"

## Achievements/Awards

2021 **R.S.N.A.**

**Conference**

Submitted 2 researches as first author (under review).

2019 **Data Science Bowl**

**Team: BabyGotHack, 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 M.H.R.D. The only team to be selected for internship at ISRO.