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. Developed light traditional computer vision algorithms 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. Setup dataset pipeline for data team and training pipelines for research team.

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

Worked on Neural Architechture Searcch (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**

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.

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: "Like deep dream in the image, 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 Authors 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.