

Rohan Garg

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PROJECTS

DEEPPDREAMS

11 September 2020

- Worked on an algorithm known as DeepDreams, which is used to visualize the patterns as perceived by different layer of neural network.
- Developed an implementation of deepdreams algorithm in PyTorch by using pretrained vgg-19 neural network.

PATHOLOGICAL-CLASSIFICATION-MODEL

31 May 2020

- Developed a model using Tensorflow, used to classify different OCT images as DME, CNV, DRUSEN & NORMAL.
- Also identified ROI's(region of interest) in the images which are responsible for classifying the images in one of the four classes.

PAPERS WE READ

26 August 2020

- A GitHub repository, maintained by Vision and Language Group containing summaries of research papers from various popular ML conferences.
- Wrote summary of "Creative Sketch Generation" Paper.

SPHERICO-INTEL

15 Apr 2020

- Worked on a Gyrobot which is basically a sphere with a hemispherical head on top of it capable of moving in any direction and transport small objects in short-range of distance.
- Designed the whole Gyrobot's mechanical design and its interior motion mechanisms.

ACHIEVEMENTS

- **HScTss Scholar (2018)**: Scholarship awarded by Government of Haryana to students having Scientific orientation mind.
- Perfect Score in **Mathematics** in JEE MAINS 2020

COLLEGE ENGAGEMENTS

VISION AND LANGUAGE GROUP | CORE MEMBER

4 May 2020 - Present

A community of Deep learning enthusiasts that conducts regular discussions and workshops with a primary focus on research papers and research on a variety of fields like Computer Vision and Natural Language Processing.

BLOGS | DEEP LEARNING

17 June 2020

I had written a couple of blogs on Medium in the domain of deep learning, in which, one was published on VLG medium space. You can find my blogs [here](#)

NATIONAL SPORTS ORGANIZATION (NSO) | HOCKEY TEAM

1 January 2020 - Present

I am in the Official Hockey team of IITR under NSO.

MOOC'S AND COURSES

- Machine Learning - Coursera
- Intro to Deep Learning with PyTorch - Udacity
- Deep Learning Specialization - Coursera
- CS231n - Stanford Computer Vision
- CS224n - Natural Language Processing, Stanford
- MAN 006 - Probability and Statistics
- CS330 - Multi-Task and Meta-Learning, Stanford
- Introduction to Reinforcement Learning by David Silver-DeepMind

EDUCATION

IIT ROORKEE

B.Tech in Production & Industrial Engg.

Expected 2024 | CGPA : 7.56 (2nd Sem)

RPS PUBLIC SCHOOL, REWARI

Class 12th, CBSE

2020 | Percentage: 94.4%

Class 10th, CBSE

2018 | Percentage: 87.6%

AREAS OF INTEREST

- Deep Learning
- Computer Vision
- Generative Models
- Pure Mathematics

SKILLS

- Python
- C++
- Pytorch (Intermediate)
- Tensorflow (Beginner)