

ROHAN GARG

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EDUCATION

Indian Institute of Technology Roorkee
B.Tech in Production and Industrial Engineering

CGPA: 7.56/10.00

RPS Public School, Rewari
Higher Secondary Certificate, Central Board of Secondary Education

Jun 2018 - Apr 2020
Percentage: 94.4%

RESEARCH INTERESTS

Deep Learning | Computer Vision | Generative Models | Pure Mathematics | Cryptography

TECHNICAL SKILLS

Pytorch(intermediate) | Hugging face library(intermediate) | Tensorflow(beginner) | Python | C++

PROJECTS

DeepDreams Aug 2021 - Sept 2021

- Worked on an algorithm DeepDreams, which is used to visualize the patterns as perceived by different layers of a neural network.
- Developed an implementation of DeepDreams algorithm in PyTorch by using pretrained VGG-19 neural network. [Code](#)

Pathological Classification IIT Roorkee
Vision and Language Group *Apr 2021 - May 2021*

- Developed a Deep Learning Classification model to detect retinal diseases from optical coherence tomography (OCT) X-ray images.
- Applied Transfer Learning by utilizing pretrained ResNet50 in the model to improve accuracy and reduce training time.
- Also identified the ROI (Region of Interest) in the images which is responsible for classifying the images in one of the four diseases. [\[Code\]](#)

Literature Summary Repository Aug 2021 - Aug 2021

- Contributed to a GitHub repository, maintained by Vision and Language Group containing summaries of research papers from various popular ML conferences.
- Summarized research papers from conferences like ICLR and CVPR. [\[Code\]](#)

Spherico-Intel Gyrobot IIT Roorkee
Cognizanace 2021, IIT Roorkee Technical Fest *Feb 2021 - Apr 2021*

- Designed a Solidworks model of a spherical Gyrobot capable of moving in any direction and transport small objects at short distances.
- Designed the Gyrobot's mechanical design and its interior motion mechanisms.

HONORS AND AWARDS

2020	JEE (Advanced) 2020 All India Rank 5167 out of 250,000 students (top 2%) in JEE Advanced 2020, for my admission at IIT Roorkee.
2018	HScTss Scholar (2018) Haryana State Talent Search Scheme Scholarship awarded Haryana State Government to students with a scientifically oriented mind.

MOOC'S AND COURSES

Machine Learning	Coursera
Intro to Deep Learning with PyTorch	Udacity
Deep Learning Specialization	Coursera
CNNs for Visual Recognition(CS231n)	Stanford
Natural Language Processing with Deep Learning(CS224n)	Stanford
Probability and Statistics	IIT Roorkee
Multi-Task and Meta-Learning(CS230)	Stanford
Introduction to Reinforcement Learning by David Silver	DeepMind

COLLEGE ENGAGEMENTS

Vision and Language Group <i>Core Member</i>	May 2020 - Present
<ul style="list-style-type: none">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 <i>Deep Learning</i>	Jun 2020 - Present
<ul style="list-style-type: none">I have written a couple of blogs on Medium in the domain of deep learning, of which, one was published on VLG medium space.	
Field Hockey, IIT Roorkee	Jan 2020 - Present
<ul style="list-style-type: none">I represent IIT Roorkee at various sports tournaments as a midfielder in the Institute Field Hockey Team.	