ROHAN GARG

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EDUCATION

Indian Institute of Technology Roorkee   **CGPA: 7.61/10.00**
B.Tech in Production and Industrial Engineering

RPS Public School, Rewari   *Jun 2018 - Apr 2020*
Higher Secondary Certificate, Central Board of Secondary Education   Percentage: 94.4%

FIELD OF INTERESTS

Mathematics | Deep Learning | Computer Vision | Cryptography

TECHNICAL SKILLS

Pytorch(intermediate) | Hugging face library(intermediate) | Tensorflow(beginner) | Python
Data-structures and Algorithms | C++

PROJECTS

DeepDreams   Aug 2021 - Sept 2021

- Worked out on an algorithm, DeepDreams, which is used to visualize the patterns as perceived by different layers of a neural network.

- Developed an implementation of the DeepDreams algorithm in PyTorch by using pre-trained 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 pre-trained 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 - Present

- 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.   [Repository]

Competitive Programming Repository   May 2022 - Present

- A repository for providing solutions to problems of Competitive Programming.

- The repository is updated at regular intervals with solutions of several problems.   [Repository]

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 by Haryana State Government to students with a scientifically oriented mind.

MOOCS AND COURSES

Introduction to advanced mathematics	IIT Roorkee
Probability and Statistics	IIT Roorkee
Machine Learning	Coursera
Intro to Deep Learning with PyTorch	Udacity
Deep Learning Specialization	Coursera
CNNs for Visual Recognition(CS231n)	Stanford

COLLEGE ENGAGEMENTS

Vision and Language Group   May 2021 - Present

Core Member

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

Blogs   Jun 2021 - Present

Deep Learning

- I have written blogs on Medium in the domain of deep learning and research, of which, one was published on VLG medium space.   Blogs.

Field Hockey, IIT Roorkee   Jan 2021 - Present

- I represent IIT Roorkee at various sports tournaments as a goalkeeper in the Institute Field Hockey Team.

- Won the Inter IIT hockey tournament and conquered overall IIT tournament champions.