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"The only way to do great work is to love what you do."

Summary.

A sophomore pursuing a degree in Electrical Engineering at IIT Roorkee, with a passion to contribute to Open-Source repositories and learning about Deep Learning systems. Experience in research on AI security and Quantum computing. Enjoys participating in hackathons and collaborating with others. Proficient in utilizing Linux and OS X, with a particular interest in Linux distributions. Excited to continue growing and learning in the field of Deep Learning and Artificial Intelligence.

Work Experience ___

Pytorch-Ignite Remote

OPEN SOURCE DEVELOPER Dec. 2022- Present

- Added a Super Resolution Example to the main repository
- Added some enhancement features and worked on CI related bugs

Indian Institute of Technology Roorkee

Roorkee, Uttarakand, India

PYTHON DEVELOPER AND RESEARCH INTERN

Oct. 2022 - Dec. 2022

- · Worked under Prof. Deep Kiran and Prof. Tarun to develop an optimiser in Python(Qiskit and AWS Bracket) that can solve electrical systems
- Conducted tests on AWS Bracket platform for various optimizers and reviewed their performance

Projects and Hackathons

ML Repro Challenge 2022-23 (7)

Remote

REPRODUCED PAPER ON "DOUBLE SAMPLING RANDOMIZED SMOOTHING"

Oct. 2022 - Feb. 2023

- First author of the paper [Re]DSRS.
- The paper was rejected but we got very positive reviews from the Area Chair and a score of 21/30 in the evaluation.
- · Worked on experiments surrounding the main paper which were appreciated by original authors, notably Assistant Prof. Bo Li, UIUC

ESRGAN for Indian Space Research Organization(ISRO)

India

PROBLEM STATEMENT IN INTER IIT TECH MEET 11.0

February 2023

- · Received Bronze Medal and 5th position overall in the problem statement overall among 23 IITs
- · Worked on Enhanced Super Resolution GANs to convert low resolution images into higher resolution as captured by Chandrayaan-2 orbiter

Social Summer of Code Hackathon %

India

PARTICIPANT

July 2022 - Oct. 2022

- Worked on Django and Flask websites, Deep Learning and Computer Vision Projects, Yolo V5 architecture
- Secured 14th position among 200 developers

Education

Indian Institute of Technology Roorkee

Roorkee, Uttarakand, India

B.Tech. IN ELECTRICAL ENGINEERING

Oct. 2021 - Present

• Got a Cumiliative Grade Point Average(CGPA) of 8.44 by the end of the 3rd semester

Achievements & Honours

2023	Bronze Medal, Inter IIT Tech Meet 11.0	India
2022	14th Place , Social Summer of Code 2022 Hackathon	India
2021	AIR 1751(0.1 Percentile), JEE Advanced Exam 2021	India
2021	AIR 2581(0.1 Percentile), JEE Mains Exam 2021	India
2021	AIR 1100, KVPY 2021- Government of India Exam	India
2021	96.2% , CBSE Senior Secondary Board Exams (12th Standard)	India
2019	98%, CBSE Secondary Board Exams (10th Standard)	India

Extracurricular Activity

Data Science Group IITR India

CORE MEMBER Apr. 2022 - Present

· Work on various core Data Science concepts, and spreading awareness about emerging areas like AI Security.

• Trying to reduce friction for students entering the ML community

Physics and Astronomy Group IITR

India

March. 2023 - Present

- Study and spread awareness about Astronomy and Physics.
- Trying to help people learn about telescopes and instruments along with ML and Data processing of Space images

Relevant Coursework

Undergraduate Remote

ML, CV, NLP and Al SECURITY

Jan. 2022 - PRESENT

- MAN001: Basic Mathematics and Liner Algebra
- EEN 103 C++ Programming Course
- CS 229: Stanford ML course
- EECS: Deep Learning for Computer Vision- Michigan University
- CS 224n: Natural Language Processing with Deep Learning

Skills

CORE MEMBER

Programming Python, C++, JS, Bash, Matlab, LaTeX

Frameworks PyTorch, Numpy, Scipy, Sklearn, TensorFlow, JaX, Transformers

Utilities Git, Docker, Conda, Github Actions, Linux, OSX

Back-endFlask, DjangoFront-endHTML5, CSSLanguagesEnglish, Hindi