

Education

B.Tech Computer Science

Aug'19-Present

Indian Institute of Technology Jodhpur

CGPA (Ongoing) : 8.85 / 10

Class 12th

Mar'18-Mar'19

Dehradun public school , Muzaffarnagar

Percentage : 96.4%

Technical Skills

Languages:

Python , C/C++ , HTML/CSS , Javascript

Tools and Frameworks:

Pytorch, Sklearn, Numpy, Pandas, Matplotlib,
Seaborn, Regex, Heroku ,Git ,Github, Firebase, MongoDB
Tensorflow ,Java , React , Nodejs, Google Colab, openCV

Familiar with:

Experience

Chest X-Ray Image Classification | Python ,Pytorch,torchvision, numpy , matplotlib

Mentor : Dr. Angshuman Paul | IIT Jodhpur

Jun'21 - Present

- Task is to Design a **Light weight model** for the **detection of anomaly in the X-Ray** images
- Implemented various models (**Squeezenet,shuffle net, Resnet, Mobilenet**)
- **achieved 72%** accuracy so far with the fine tuning of these models

Projects

Mask - NoMask Detection | Github | Python ,Pytorch, ,Jupyter notebook, numpy , PIL ,matplotlib

- Detected around **5300** images under masked and no masked category with an accuracy of **99.6%**
- Used **MobileNet v2** model in classification
- Combined the model with **OpenCv** for real time detection

Skin Cancer Detection | Github | Pytorch, jupyter notebook , numpy , matplotlib

- Detected around **10000** images under the corresponding disease (**7 classes**) with accuracy of **73.9%**
- used **squeezenet (Modified) , Mobilenet** for classification

ML Algorithms from Scratch | Github | Pytorch , torchvision

- Implemented **CNN architectures, ML algorithms** from scratch
- Models created: **Resnet50, Squeezenet, Combination of squeezenet + Mobilenet , MLP , K-means**

Achievements

- Among top 0.5 percentile in JEE Mains out of 1M students
- Among top 2% in JEE Advance out of 2.45 lakh students
- Secured 23rd state rank in UPTU Examination among 1.5 lakh students
- Upgraded department from Mechanical to Computer Science
- 6 star in problem solving on **Hackerrank**