

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**