

**J. C. BOSE UNIVERSITY OF SCIENCE & TECHNOLOGY,
YMCA FARIDABAD**

DEPARTMENT OF COMPUTER ENGINEERING

Progress Report for B.Tech. Capstone Project

1st Progress Report (May 2024)

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|--------------------------------------|---|--|
| 1. Name of Student | : | Jatin Sareen |
| 2. Name of Supervisor | : | Dr. Deepika |
| 3. Roll No. | : | 21001003059 |
| 4. Name and Roll No of Team Member : | | Kartikey Katyal (21001003066) |
| 5. Title of Project | : | Chest Disease Classification from Chest CT |

Scan Images

Date:

(Signature of Student)

Report

- 1) Done the Jupyter Notebook Part of Project i.e. trained 4 models successfully which are ResNet50, VGG16, DenseNet201, EfficientNetB4 with 100 Epochs each.
- 2) Successfully Build and Tested the Data Ingestion Pipeline which contains the Data Downloading and Unzipping part and created basic Structure of Project.
- 3) Successfully Build and Tested the Prepare Base Model Pipeline which involves model downloading and saving part.

Name and Signature of Supervisor

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DEPARTMENT OF COMPUTER ENGINEERING

Progress Report for B.Tech. Capstone Project

2nd Progress Report (May 2024)

1. Name of Student : **Jatin Sareen**
2. Name of Supervisor : **Dr. Deepika**
3. Roll No. : **21001003059**
4. Name and Roll No of Team Member : **Kartikey Katyal (21001003066)**
5. Title of Project : **Chest Disease Classification from Chest CT**

Scan Images

Date:

(Signature of Student)

Report

- 1) Successfully Build and Tested the Model Trainer Pipeline which involves model training and HyperParameter tuning part with help of MLFlow.
- 2) Successfully Build and Tested the Model Evaluation Pipeline which involves model evaluation and saving the best model and it's accuracy with help of MLFlow.
- 3) Build Frontend User Interface Containing Prediction Framework of different CT Scan Images, using HTML, CSS, JavaScript and Flask Web Framework.
- 4) Build Docker Image of the project and pushed it into DockerHub.

Name and Signature of Supervisor