

Project Design Phase-I Solution Architecture

Date	23 October 2023
Team ID	Team-592616
Project Name	Detecting Covid-19 from Chest X-Rays using Deep Learning Techniques
Maximum Marks	4 Marks

Solution Architecture:

Leveraging CNNs and transfer learning for COVID-19 diagnosis using chest X-rays is a crucial development in the fight against the pandemic. This approach takes advantage of multiple benefits:

- Early Detection:
- Efficiency and Speed
- Data-Driven Insights

Our solution leverages Convolutional Neural Networks (CNNs) and the Transfer learning models effectively to address Covid detection as follows:

- Data Collection (X-Ray Images)
- Image Preprocessing
- Model Building (CNN, Xception, Efficient-net)
- Covid 19 Classification
- Deployment of the built model

Solution Architecture Diagram:

