

Title: Face-Mask Detection using Pre-trained Neural Network

Agenda:

To develop a model that can help in real time in work places to check whether person is wearing mask or not and help the institutions to reduce man power and stress for this and to make this whole process easy.

Reason:

Our country is being the worst hit country by the novel Corona virus, we pledge to help our medical science. We all know how important it is to wear mask and thus, it is important to automate this process so that our frontline warriors can focus on other important things.

Review1:

- Problem Understanding
- Data Gathering
- Data Pre-Processing
- Implementation using VGG16

Review 2:

- Implementation using resnet50
- Implementation using Xception
- Implementation using InceptionV3 model
- Implementation using CNN

Review 3:

- Comparison graph
- Implementation UI for the most accurate model.

Optimizers used:

- Adam
- Rmsprop

Implementation works on 2 factors:

- Feature extraction
- Fine tuning

Dataset used:

<https://www.kaggle.com/omkargurav/face-mask-dataset>