

## Face Mask Detection Workshop: Day 1

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### Assignment

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## Assignment – 1:

### Scenario

To build a successful mask detection model, we must comprehend certain processes and concepts beforehand. A simple introduction will be enough to understand the whole project, but you will need a thorough understanding of each concept to build a face mask detection by yourself. You can start with the following tasks as an assignment to get started.

- Learn about OpenCV basic Operations in detail. You can refer to the official documentation for reference
- Create a face detection model using Haar Cascade classifier
- Learn thoroughly about the Machine Learning processes for basic image classification
- Learn about Deep Learning Using Tensorflow
- Get familiar with Image Processing Using TensorFlow and how we can create a simple classifier using TensorFlow

This should serve as a foundation for the mask detection model, where we will be implementing the Deep Learning processes to train a mask detection model and use it in real-time using OpenCV operations.

**Services used:** TensorFlow, OpenCV, Deep Learning, Machine Learning

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