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**IHC – Vision Intelligence and Machine Learning**

**Industry Assignment No. 2**

**Problem Statement**

WHO (World health organisation) in light of the pandemic of COIVD-19 needs to automate the process of reading X-rays to check if the person is affected with covid or is it just a viral fever/ Normal health, hence as a data scientist you are expected to train a model that will determine if a person is affected by covid, or is it a viral fever or the person is normal?

**Data Set**

Please download the dataset from Kaggle from this URL:

<https://www.kaggle.com/pranavraikokte/covid19-image-dataset>

**What is expected**

Train a model that will determine if a person is affected by Covid or is it a viral fever or the person is normal.

**Rubrics**

1. Use flow from directory method of Keras to feed data to the model.
2. Use global average pooling instead of maxpooling.
3. Testing model structure with various layers.
4. Extra marks for using a pertained model like Resnet50.
5. Testing model with various batch sizes during training, early stopping epoch size.

Students are also given a logical flow at the beginning of the workbook that can act as a skeleton to the overall project, but they are advised to add further steps where they feel necessary based on the rubrics defined above for maximum marks.