Project Development Phase Model Performance Test

| Date | 10 November 2022 |
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| Team ID | PNT2022TMID03716 |
| Project Name | Project – Real time communication system |
| | powered by AI for specially abled |
| Maximum Marks | 10 Marks |

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

| S.No. | Parameter | Values | Screenshot |
|-------|---------------|--------|---|
| 1. | Model Summary | | In [1]: from keras, preprocessing lange import InageletaGenerator train_datagen-langeletaGenerator(rescale=1,/255, shear_range=0.2, zoom_range=0.2, horizontal_flip=irwe) test_datagen-langeletaGenerator(rescale=1,/255) In [4]: x_train = train_datagen.flom_from_directory("/content/lataset/training_set", target_size=(64,64), batch_size=300, class_mode="cate") |
| | | | Found 15790 images belonging to 9 classes. In [5]: X test + test_datagen.flow_from_directory('/content/Dataset/best_set', target_size-(44,64),batch_size-300,class_mode-'categorica |
| | | | Found 2250 images belonging to 9 classes. In [6]: From keras models import Sequential From keras Layers import Dense From keras Layers import Concolution20 From keras Layers import Thankooling.00 |
| | | | from keras.layers import Dropout from keras.layers import Flatten In [8]: model = Sequential() |

| 2. Accuracy Training Accuracy – 99.6% | <pre>In [17]: model.fit_generator(x_train,steps_per_epoch=24,epochs=10,validar #steps_per_epoch = no. of train images//batch size</pre> |
|---------------------------------------|--|
| Validation Accuracy — 98.3% | /usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:1: on. Please use "Model.fit', which supports generators. """Entry point for launching an IPython kernel. Epoch 1/10 24/24 [==================================== |