Project Development Phase
Model Performance Test

Date	14 November 2023
Team ID	PNT2023TMID591725
Project Name	Project – Lip Reading using Deep Learning
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.	Metrics	**Regression Model:**
		CTC
			`model.compile(optimizer=Adam(learning_rate=0.0001), loss=CTCLoss)`
			`url = 'https://drive.google.com/uc?id=1vWscXs4Vt0a_1IH1-ct2TCgXAZT-N3_Y'`
			`output = 'checkpoints.zip'`
			`gdown.download(url, output, quiet=False)`
			`gdown.extractall('checkpoints.zip', 'models')`
			`checkpoint_callback = ModelCheckpoint(os.path.join('models','checkpoint'), monitor='loss', save_weights_only=True)`
			`schedule_callback = LearningRateScheduler(scheduler)`
			`example_callback = ProduceExample(test)`
			`model.fit(train, validation_data=test, epochs=4, callbacks=[checkpoint_callback, schedule_callback, example_callback])`
			Epoch 1/4
			118/450 [=====>.....] - ETA: 3:39:55 - loss: 104.6171

2.	Tune the Model	Validation Method -	Train and Test Validation Method:
			`data = tf.data.Dataset.list_files('./data/s1/*.mpg')`
			`data = data.shuffle(500, reshuffle_each_iteration=False)`
			`data = data.map(mappable_function)`
			`data = data.padded_batch(2, padded_shapes=([75,None,None,None],[40]))`
			`data = data.prefetch(tf.data.AUTOTUNE)`
			`# Added for split`
			`train = data.take(450)`
			`test = data.skip(450)`