

**Project Development Phase**  
**Model Performance Test**

Date	9 November 2022
Team ID	Team-592314
Project Name	Project - Crime Vision: Advanced Crime Classification With 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	<b>Regression Model:</b> MAE - NA, MSE -NA , RMSE - NA, R2 score - NA  <b>Classification Model:</b> Confusion Matrix - , Accuray Score& Classification Report -	- accuracy: 0.7653 - val_loss: 2.1247 - val_accuracy: 0.5568 - accuracy: 0.8221 - val_loss: 2.1643 - val_accuracy: 0.4938 - accuracy: 0.8503 - val_loss: 2.3249 - val_accuracy: 0.5048 - accuracy: 0.8742 - val_loss: 2.3809 - val_accuracy: 0.5581 - accuracy: 0.8871 - val_loss: 2.2491 - val_accuracy: 0.5249 - accuracy: 0.8979 - val_loss: 2.7502 - val_accuracy: 0.5177 - accuracy: 0.9067 - val_loss: 2.3852 - val_accuracy: 0.5094 - accuracy: 0.9100 - val_loss: 2.6323 - val_accuracy: 0.4869 - accuracy: 0.9187 - val_loss: 2.5938 - val_accuracy: 0.5249 - accuracy: 0.9216 - val_loss: 2.6197 - val_accuracy: 0.4669
2.	Tune the Model	Hyperparameter Tuning Validation Method - CNN	<pre> model = Sequential() model.add(Convolution2D(32,(3,3), activation = 'relu', input_shape = (224,224,3))) model.add(MaxPooling2D(pool_size = (2,2))) model.add(Convolution2D(32,(3,3))) model.add(MaxPooling2D(pool_size = (2,2))) model.add(Convolution2D(32,(3,3))) model.add(MaxPooling2D(pool_size = (2,2))) model.add(Convolution2D(32,(3,3))) model.add(MaxPooling2D(pool_size = (2,2))) model.add(Convolution2D(32,(3,3))) model.add(MaxPooling2D(pool_size = (2,2))) model.add(Flatten()) model.add(Dense(150, activation = 'relu')) model.add(Dense(14, activation = 'softmax')) </pre>