## Performance & Final Submission Phase Model Performance Test

Date	15 November 2023	
Team ID	Team-592065	
Project Name	Vitamin Detection 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: MAE - , MSE - , RMSE - , R2 score -  Classification Model: Confusion Matrix - , Accuray Score- & Classification Report -	# Confusion Matrix  cm = confusion_matrix(y_true_labels, y_pred_labels) print("Confusion Matrix:\n", cm)  Confusion Matrix:  [[ 4 11 22 4 11] [11 7 12 4 8] [11 15 16 8 12] [ 3 5 7 7 6] [ 4 12 8 6 10]]  # Accuracy Score  accuracy = accuracy_score(y_true_labels, y_pred_labels) print("Accuracy Score:", accuracy)  Accuracy Score: 0.19642857142857142  # Classification Report  report = classification_report(y_true_labels, y_pred_labels) print("Classification Report:\n", report)  Classification Report:
2.	Tune the Model	Hyperparameter Tuning - Validation Method - CNN	<pre>model=Sequential() model.add(Convolution2D(32,(3,3),input_shape=(64,64,3),activation="relu")) model.add(MaxPooling2D(pool_size=(2,2))) model.add(Flatten()) model.add(Dense(units=128,activation="relu")) model.add(Dense(units=5,activation="softmax"))</pre>