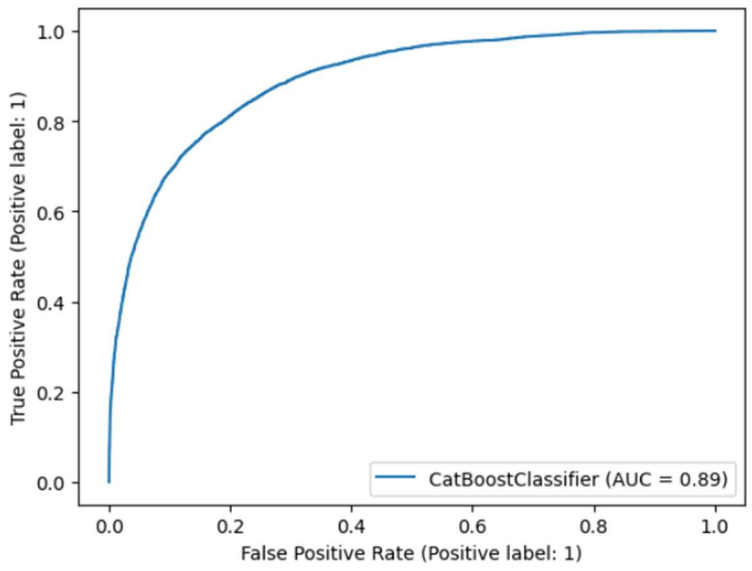


Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID18408
Project Name	Exploratory Analysis of Rainfall Data in India for Agriculture
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	-	<pre>metrics.plot_roc_curve(cat, X_test, y_test) metrics.roc_auc_score(y_test, y_pred, average=None)</pre> <p>0.7542183058899486</p>  <p>True Positive Rate (Positive label: 1)</p> <p>False Positive Rate (Positive label: 1)</p> <p>CatBoostClassifier (AUC = 0.89)</p>
2.	Accuracy	Training Accuracy - Validation Accuracy -	<pre>Epoch 40/150 2537/2537 [=====] - 11s 4ms/step - loss: 0.3941 - accuracy: 0.8425 - val_loss: 0.3656 - val_accuracy: 0.8495 Epoch 41/150 2537/2537 [=====] - 11s 4ms/step - loss: 0.3931 - accuracy: 0.8421 - val_loss: 0.3655 - val_accuracy: 0.8497 Epoch 42/150 2537/2537 [=====] - 11s 4ms/step - loss: 0.3930 - accuracy: 0.8423 - val_loss: 0.3656 - val_accuracy: 0.8494 Epoch 43/150 2537/2537 [=====] - 11s 4ms/step - loss: 0.3924 - accuracy: 0.8422 - val_loss: 0.3654 - val_accuracy: 0.8498 Epoch 44/150 2537/2537 [=====] - 11s 4ms/step - loss: 0.3921 - accuracy: 0.8418 - val_loss: 0.3654 - val_accuracy: 0.8496 Epoch 45/150 2537/2537 [=====] - 10s 4ms/step - loss: 0.3903 - accuracy: 0.8424 - val_loss: 0.3652 - val_accuracy: 0.8488 Epoch 46/150 2537/2537 [=====] - 11s 4ms/step - loss: 0.3914 - accuracy: 0.8429 - val_loss: 0.3652 - val_accuracy: 0.8495</pre>

