Project Development Phase

Model Performance Test

Date 20 November 2023
Team ID SI-GuidedProject-611244-1700554953
Project Name ZOMBIE DETECTOR:Using ML To Save Lives During A Zombie Apocalypse

Model Performance Testing:

1.	Model Summary	No direct function to represent model summary in traditional machine learning models as compared to tensorflow models
2.	Accuracy	Logistic: 0.8666666666666667 Random:0.8333333333333334 Decision:0.8166666666666667 SVM:0.7666666666666667

Screenshot:

Accuracy

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[18]: X_train,X_test,y_train,y_test=train_test_split(X_selected,y,test_size=0.3,random_state=42)
      Model_log.fit(X_train,y_train)
      y_pred=Model_log.predict(X_test)
      mae=mean_absolute_error(y_test,y_pred)
      acc=accuracy_score(y_test,y_pred)
      acc

[18]: 0.8666666666666667

[19]: Model_Decision.fit(X_train,y_train)
      y_pred_Decision=Model_Decision.predict(X_test)
      mae=mean_absolute_error(y_test,y_pred_Decision)
      acc_Decision=accuracy_score(y_test,y_pred_Decision)
      acc_Decision

[19]: 0.8333333333333334

[20]: Model_random.fit(X_train,y_train)
      y_pred_random=Model_random.predict(X_test)
      mae_random = mean_absolute_error(y_test,y_pred_random)
      acc_random=accuracy_score(y_test,y_pred_random)
      acc_random

[20]: 0.8166666666666667

[21]: Model_SVM.fit(X_train,y_train)
      y_pred_SVM=Model_SVM.predict(X_test)
      mae_SVM = mean_absolute_error(y_test,y_pred_SVM)
      acc_SVM=accuracy_score(y_test,y_pred_SVM)
      acc_SVM

[21]: 0.7666666666666667
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