UNIVERSITY ADMIT ELIGIBILITY PREDICTOR

MODEL PERFORMANCE TESTING

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Domain Name	Education
Project Name	University Admit Eligibility Predictor
Maximum Marks	10 Marks

MODEL PERFORMANCE TESTING :

S. No	Parameter	Values	Screenshot

1.	Metrics	**Regression Model**
		MAE - 0.039
		MSE - 0.0025
		RSME - 0.05
		R2 Score - 0.8724
			`from sklearn.metrics import mean_absolute_error`
			`print(mean_absolute_error(y_test,y_predict))`
			`0.039251015019866026`
			`from sklearn.metrics import mean_squared_error`
			`print(mean_squared_error(y_test,y_predict))`
			`0.0025295186149925943`
			`print(mean_squared_error(y_test,y_predict,squared=False))`
			`0.05029431990784441`
			`from sklearn.metrics import r2_score`
			`print(r2_score(y_test,y_predict))`
			`0.8724323452611149`

2.	Tune the Model	Hyperparameter Tuning - No Hyperparameter to Be Tuned Since Linear Regression is Used.	

		Validation Method - KFOLD Cross-Validation Validation Method	**KFOLD VALIDATION METHOD**
			`from sklearn.model_selection import KFold,cross_val_score`
			`kfold = KFold(n_splits=10, shuffle=True , random_state=100)`
			`model_kfold = LinearRegression()`
			`results_kfold = cross_val_score(model_kfold, X, Y, cv=kfold)`
			`print("Accuracy: %.2f%%" % (results_kfold.mean()*100.0))`
			`Accuracy: 80.22%`