



Model Development Phase Template

Date	10 July 2024
Team ID	SWTID1720096271
Project Title	Machine learning approach for Predicting the price of natural gas
Maximum Marks	4 Marks

Initial Model Training Code, Model Validation and Evaluation Report

The initial model training code will be showcased in the future through a screenshot. The model validation and evaluation report will include classification reports, accuracy, and confusion matrices for multiple models, presented through respective screenshots.

Initial Model Training Code:

Paste the screenshot of the model training code

Model Validation and Evaluation Report:

Model	Classification Report	Accuracy	Confusion Matrix
Descision Tree Classifier	Advantation of conformation and activate, gas, prime and or a first and amount of the conformation and activate and or a first and amount of the conformation and activate and activate and activate and activate activate and activate activ	# Nake predictions y_pred = dt_model.predict(x_test) # Calculate accuracy score from sklearn import metrics accuracy = metrics.accuracy_score(y_test, y_pred) accuracy 0.5285714285714286	<pre># Calculate confusion matrix conf_matrix = metrics.confusion_matrix(y_test, y_pred) conf_matrix array([[487, 159],</pre>





Random Forest Classifier	The first country and how exclusions Market Market	wormery_sf = metrics.scormery_score(r_bast, r_gred_sf) scormery_sf s.3218467794077984	<pre>conf_matrix_rf = metrics.confusion_matrix(y_test, y_pred_rf) conf_matrix_rf array([[397, 249],</pre>
SVM	With Colors and Record To Colors (1997) and	accuracy_svc = metrics.accuracy_score(y_test, y_pred_svc) secorecy_svc 0.489915864386546	conf_matrix_svc = metrics.confusion_matrix(y_test, y_pred_svc) conf_matrix_svc array([1557, 289], [318, 226]], dtype=int64)