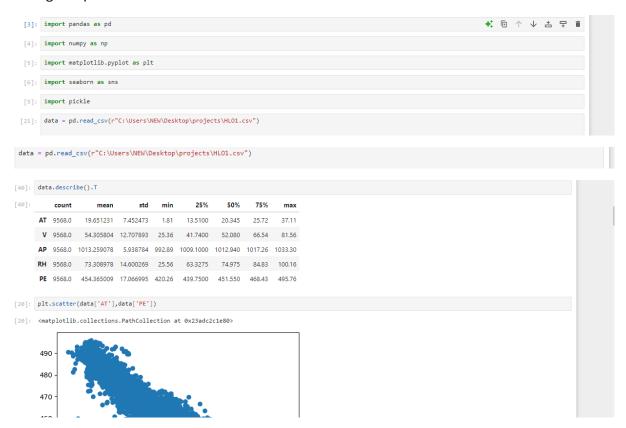


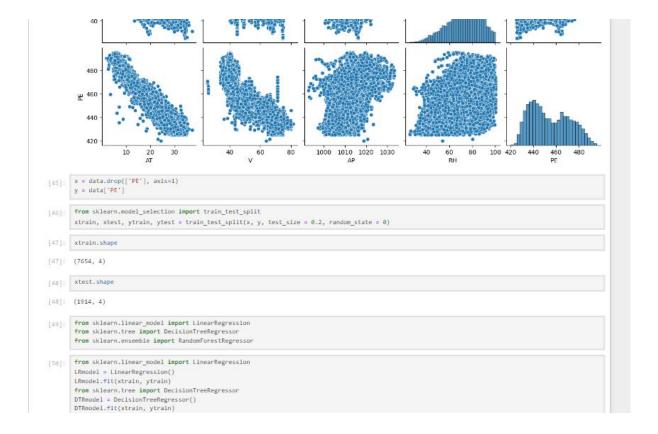


Date	15 March 2024
Team id	SWUID20240034764
Project title	Predicting Full Load Electrical Power Output
	of a Base Load Operated Combined Cycle
	Power Plant Using Machine Learning
Maximum marks	4 Marks

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.





Model Validation and Evaluation Report:

mo del	Classification report	acc urac y	Prediction matrix
Lr mo del	<pre>from sklearn.linear_model import Linear@ LRmodel = LinearRegression() LRmodel.fit(xtrain, ytrain)</pre>	95	0.9325315554761302
Dt mo del	# Intializing the model DTRmodel=DecisionTreeRegressor() # Train_the_data with Linear Regreesion model DTRmodel.fit(xtrain, ytrain) DTRpred=DTRmodel.predict(xtest) # Checking for accuracy score with actual de DTRscore=r2_score (ytest, DTRpred) DTRscore		0.9650934927089813
Rf mo del	# Random Forest Regressor from sklearn.ensemble import Rand # Initializing the model REmodel=RandomForestRegressor() # Train the data with Random Fore REmodel.fit(xtrain, ytrain) REpred=REmodel.predict(xtest) #Checking for accuracy score with REscore=r2_score (ytest, REpred) REscore		0.9212701843289313