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# -*-
Coding
: utf-8 -*-
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import numpy as np
# import matplotlib.pyplot for plotting our result
import matplotlib.pyplot as plt
# import pandas for importing csv files
import pandas as pd
from math import *
# Reading the csv file containing all the data using panda
df=pd.read_csv('Final Data.csv')
# Using sklearn libraries
from sklearn.model_selection import train_test_split
from sklearn.ensemble import RandomForestRegressor
from sklearn.metrics import mean_squared_error
# Input variables in X
X=df[['Wind Speed (miles/h)','Temperature','Humidity','Pressure']]
# Output variables in Y
Y=df[['LV ActivePower (kW)']]
# Splitting training and testing data
X_train, X_test, y_train, y_test = train_test_split(X,Y,test_size=0.2,random_state=100)
y_train=y_train.values.ravel()
# Regression tree
regressor=RandomForestRegressor(n_estimators=100)
# Fitting the model
regressor.fit(X_train,y_train)
# Getting predictions using test data
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y_predict=regressor.predict(X_test)
# Evaluating error
print('Error: ',sqrt(mean_squared_error(y_test, y_predict)))
import pickle
# Storing model in pickle for fast regression as it stores model in form of binary files
pickle.dump(regressor, open("model.pkl","wb"))
```