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# Importing the libraries
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd

# Importing the dataset
datas = pd.read_csv('data.csv')
datas
X = datas.iloc[:, 1:2].values
y = datas.iloc[:, 2].values

# Features and the target variables
X = datas.iloc[:, 1:2].values
y = datas.iloc[:, 2].values

# Fitting Linear Regression to the dataset
from sklearn.linear_model import LinearRegression
lin = LinearRegression()

lin.fit(X, y)

# Fitting Polynomial Regression to the dataset
from sklearn.preprocessing import PolynomialFeatures

poly = PolynomialFeatures(degree=4)
X_poly = poly.fit_transform(X)

poly.fit(X_poly, y)
lin2 = LinearRegression()
lin2.fit(X_poly, y)

# Visualising the Linear Regression results
plt.scatter(X, y, color='blue')

plt.plot(X, lin.predict(X), color='red')
plt.title('Linear Regression')
plt.xlabel('Temperature')
plt.ylabel('Pressure')

plt.show()

# Visualising the Polynomial Regression results
plt.scatter(X, y, color='blue')

plt.plot(X, lin2.predict(poly.fit_transform(X)),
         color='red')
plt.title('Polynomial Regression')

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plt.xlabel('Temperature')
plt.ylabel('Pressure')

plt.show()

# Predicting a new result with Linear Regression
# after converting predict variable to 2D array
pred = 110.0
predarray = np.array([[pred]])
lin.predict(predarray)

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