

Firewall Authentication Keepalive x Mail - Amol Jogalekar - Outlook x Inbox (19) - amolnotes2022@gmail.com x polynomial regression.ipynb - C: x

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polynomial regression.ipynb ☆

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```
# Importing the libraries
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
import io
from sklearn.preprocessing import PolynomialFeatures
from sklearn.model_selection import train_test_split
from sklearn import linear_model

# Importing the dataset
from google.colab import files
uploaded=files.upload()
df=pd.read_csv(io.BytesIO(uploaded['Position_Salaries.csv']))
df

#plotting graph
X = df.drop(["Position","Salary"] , axis = 1)
y = df["Salary"]
plt.scatter(X, y , label = "Distribution")
plt.xlabel("Level")
plt.ylabel("Salary")
plt.show()
```

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```
print("printing x" ,X)
print ("y" , y)

poly = PolynomialFeatures(degree = 3)
X_poly = poly.fit_transform(X)
X_train , X_test , y_train , y_test = train_test_split(X_poly , y, test_size = 0.10)

model = linear_model.LinearRegression()
model = model.fit(X_train , y_train)

y_pred_all = model.predict(X_poly)

plt.scatter(X, y , label = "Linear Distribution" , color = "navy")
plt.plot(X, y_pred_all, label = "Polynomial Regression" , color = "orange" , linewidth = 4)

plt.xlabel("Level")
plt.ylabel("Salary")
plt.legend()
plt.show()
```

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```
# to predict
test = 2
pred2array = np.array([[test]])
print("predicting the given data")
model.predict(poly.fit_transform(pred2array))
```

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Saving Position_Salaries.csv to Position_Salaries (2).csv



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