

EXPLORER

C:\Use

ML

slr.py

tempCodeRunnerFile.py

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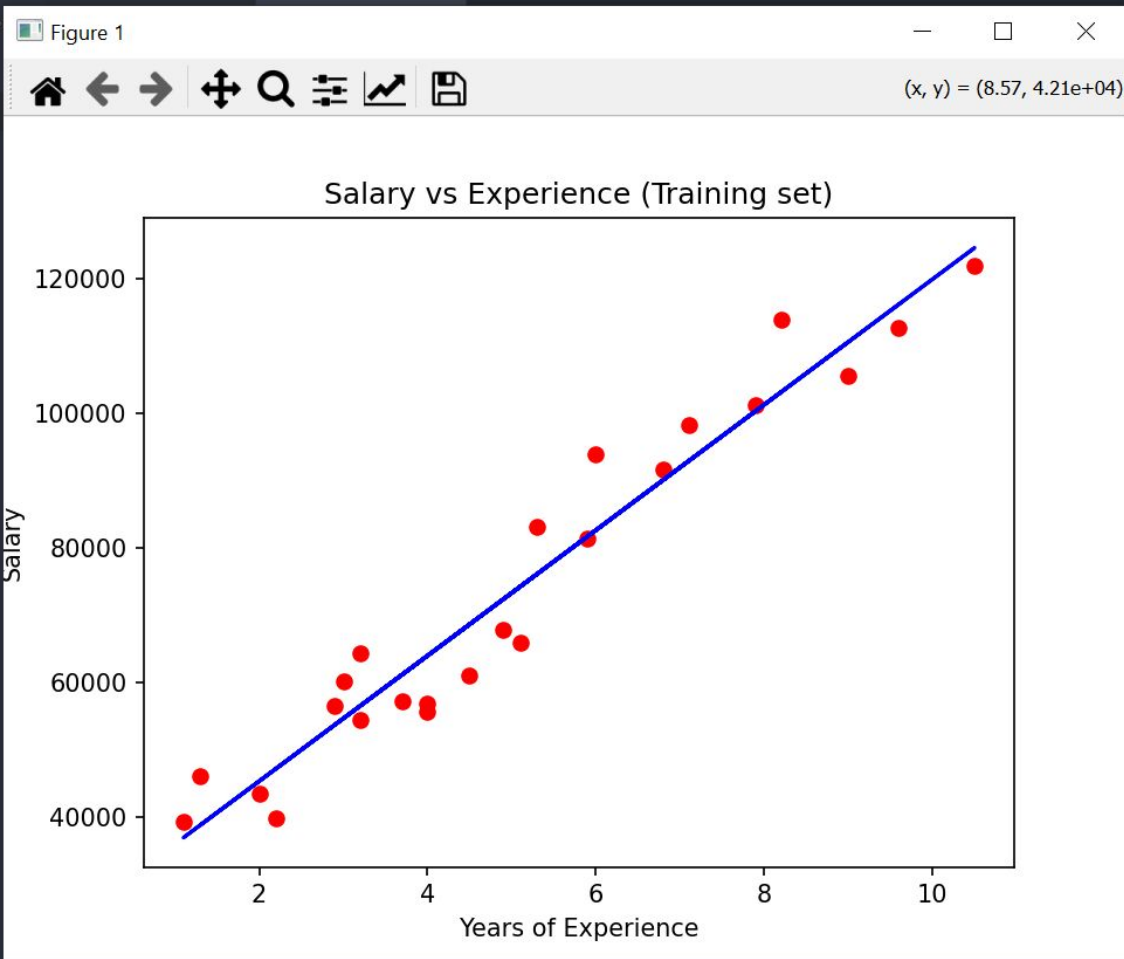
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OUTLINE

TIMELINE



[Done] exited with code=0 in 2.972 seconds

[Running] python -u "c:\Users\DELL\Desktop\VS_code\ML\tempCodeRunnerFile.py"

Build with agent mode.

AI responses may be inaccurate.

Add Context...

slr.py:1-66

Add context (#), extensions (@), com

Agent

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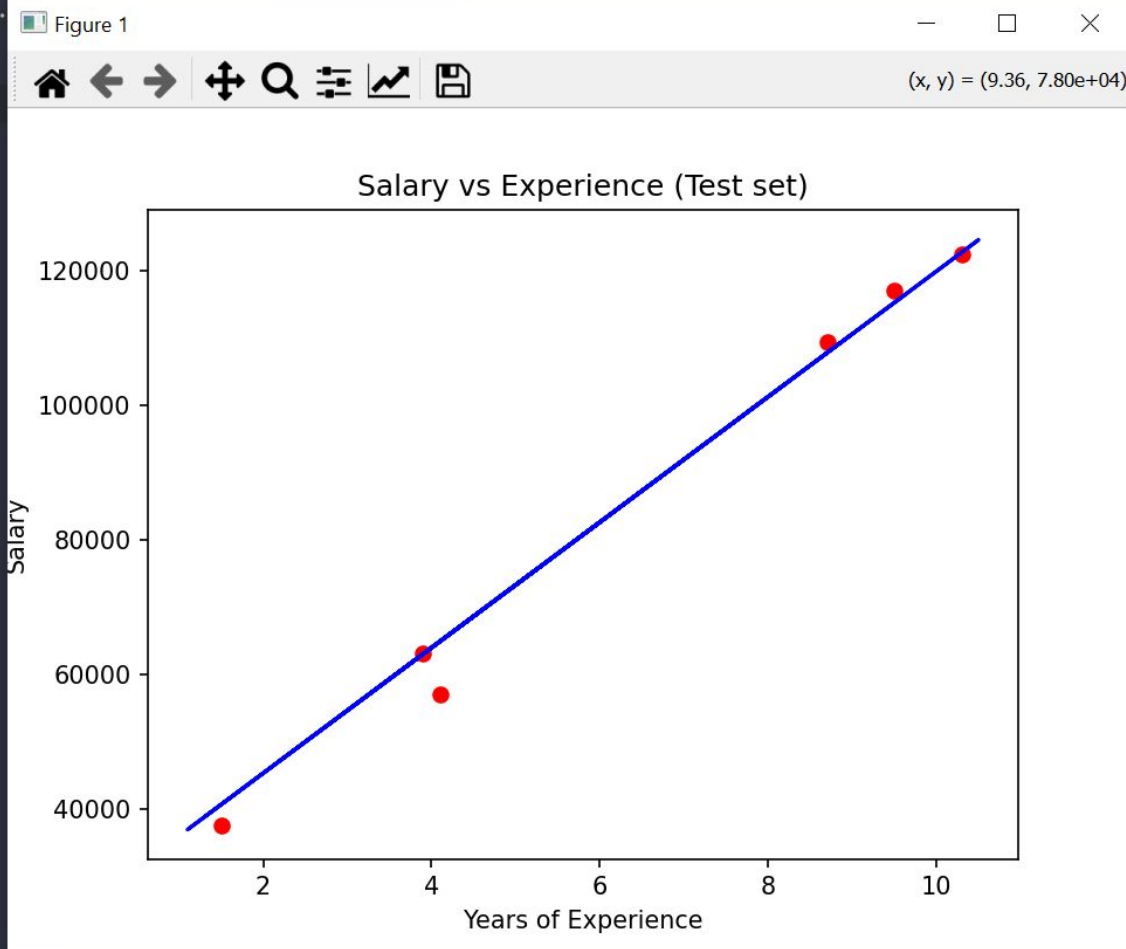
EXPLORER

C:\Use

ML

slr.py

tempCodeRunnerFile.py



[Done] exited with code=0 in 2.972 seconds

[Running] python -u "c:\Users\DELL\Desktop\VS_code\ML\tempCodeRunnerFile.py"

CHAT

Build with agent mode.

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Add Context... slr.py:1-66

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File Edit Selection View Go ...

EXPLOLER

ML

linear_regression_model.pkl

slr.py

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OUTLINE

TIMELINE

Welcome

slr.py 3 x

slr.py > ...

43 y_12 = regressor.predict([[12]])

44 y_20 = regressor.predict([[20]])

45 print(f"Predicted salary for 12 years of experience: \${y_12[0]:.2f}")

46 print(f"Predicted salary for 20 years of experience: \${y_20[0]:.2f}")

47

48 # Check model performance

49 bias = regressor.score(X_train, y_train)

50 variance = regressor.score(X_test, y_test)

51 train_mse = mean_squared_error(y_train, regressor.predict(X_train))

52 test_mse = mean_squared_error(y_test, y_pred)

53

54 print(f"Training Score (R^2): {bias:.2f}")

55 print(f"Testing Score (R^2): {variance:.2f}")

56 print(f"Training MSE: {train_mse:.2f}")

57 print(f"Test MSE: {test_mse:.2f}")

58

OUTPUT

Filter

Code

[Running] python -u "c:\Users\DELL\Desktop\VS_code\ML\tempCodeRunnerFile.py"

Predicted salary for 12 years of experience: \$138,531.00

Predicted salary for 20 years of experience: \$213,031.60

Training Score (R^2): 0.94

Testing Score (R^2): 0.99

Training MSE: 36149670.12

Test MSE: 12823412.30

Model has been pickled and saved as linear_regression_model.pkl

c:\Users\DELL\Desktop\VS_code\ML

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CHAT

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← → ML

File Explorer

EXPLOLER

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ML
linear_regression_model.pkl
slr.py 3

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OUTLINE
TIMELINE

slr.py 3 x

slr.py > ...
50 variance = regressor.score(X_test, y_test)
51 train_mse = mean_squared_error(y_train, regressor.predict(X_train))
52 test_mse = mean_squared_error(y_test, y_pred)
53
54 print(f"Training Score (R^2): {bias:.2f}")
55 print(f"Testing Score (R^2): {variance:.2f}")
56 print(f"Training MSE: {train_mse:.2f}")
57 print(f"Test MSE: {test_mse:.2f}")
58
59 # Save the trained model to disk
60 filename = 'linear_regression_model.pkl'
61 with open(filename, 'wb') as file:
62 pickle.dump(regressor, file)
63 print("Model has been pickled and saved as linear_regression_model")
64
65 import os


OUTPUT ... Filter Code

[Running] python -u "c:\Users\DELL\Desktop\VS_code\ML\tempCodeRunnerFile.py"
Predicted salary for 12 years of experience: \$138,531.00
Predicted salary for 20 years of experience: \$213,031.60
Training Score (R^2): 0.94
Testing Score (R^2): 0.99
Training MSE: 36149670.12
Test MSE: 12823412.30
Model has been pickled and saved as linear_regression_model.pkl
c:\Users\DELL\Desktop\VS_code\ML

[Done] exited with code=0 in 9.353 seconds

CHAT

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