ujangherlan

February 26, 2024

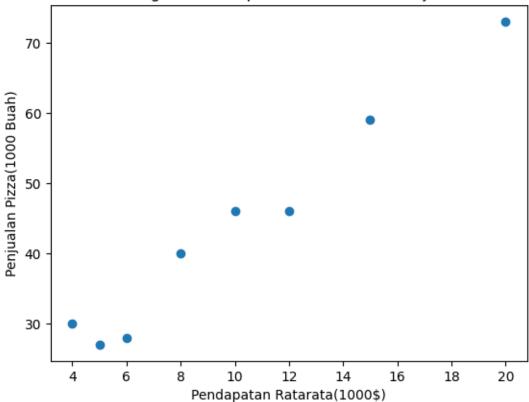
Nama : Ujang Herlan Kelas : Ti22F Nim : 20220040028

```
[4]: import matplotlib.pyplot as plt
  import numpy as np
  from scipy.stats import linregress

[5]: pendapatanRatarata = np.array([5,10,20,8,4,6,12,15])
  penjualanPizza = np.array([27,46,73,40,30,28,46,59])

[15]: plt.scatter(pendapatanRatarata, penjualanPizza,)
  plt.title('Scatter Diagram Pendapatan Ratarata vs Penjualan Pizza')
  plt.xlabel('Pendapatan Ratarata(1000$)')
  plt.ylabel('Penjualan Pizza(1000 Buah)')
  plt.show()
```





```
[19]: correlation_coefficient = np.corrcoef(pendapatanRatarata, penjualanPizza)[0, 1]
print(f"Korelasi antara pendapatan rata-rata dan penjualan pizza:

--{correlation_coefficient}")
```

Korelasi antara pendapatan rata-rata dan penjualan pizza: 0.9840325758520435

```
[31]: print(f"Slope: {slope}")
    print(f"Intercept: {intercept}")
    print(f"SSR: {SSR}")
    print(f"SSE: {SSE}")
    print(f"SST: {SST}")
    print(f"R-squared: {R_squared}")
```

Slope: 2.9047619047619047

Intercept: 14.577380952380953

SSR: 1771.9047619047622 SSE: 57.97023809523811 SST: 1829.8750000000002

R-squared: 0.9683201103380078