**MACHINE LEARNING**



Disusun Oleh:

Nama : Ilpan

NPM : 41155050210046

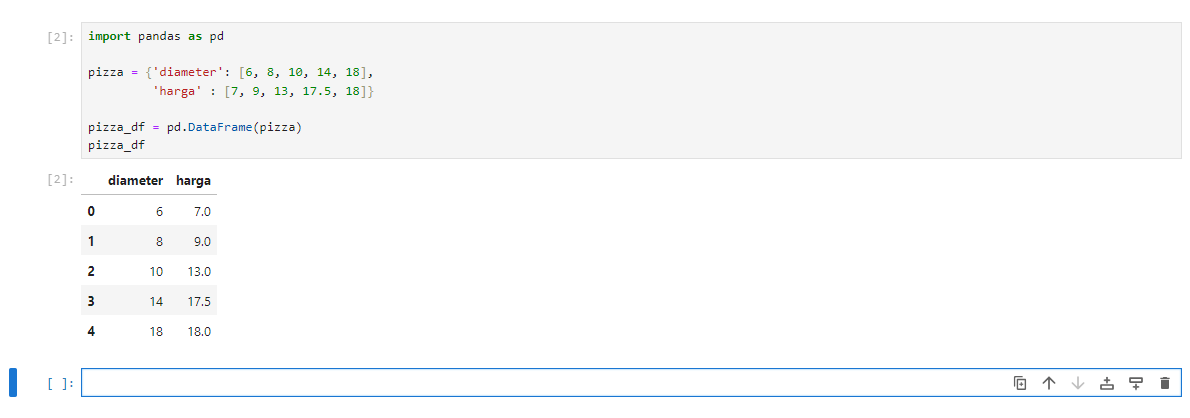
Kelas : A – 2

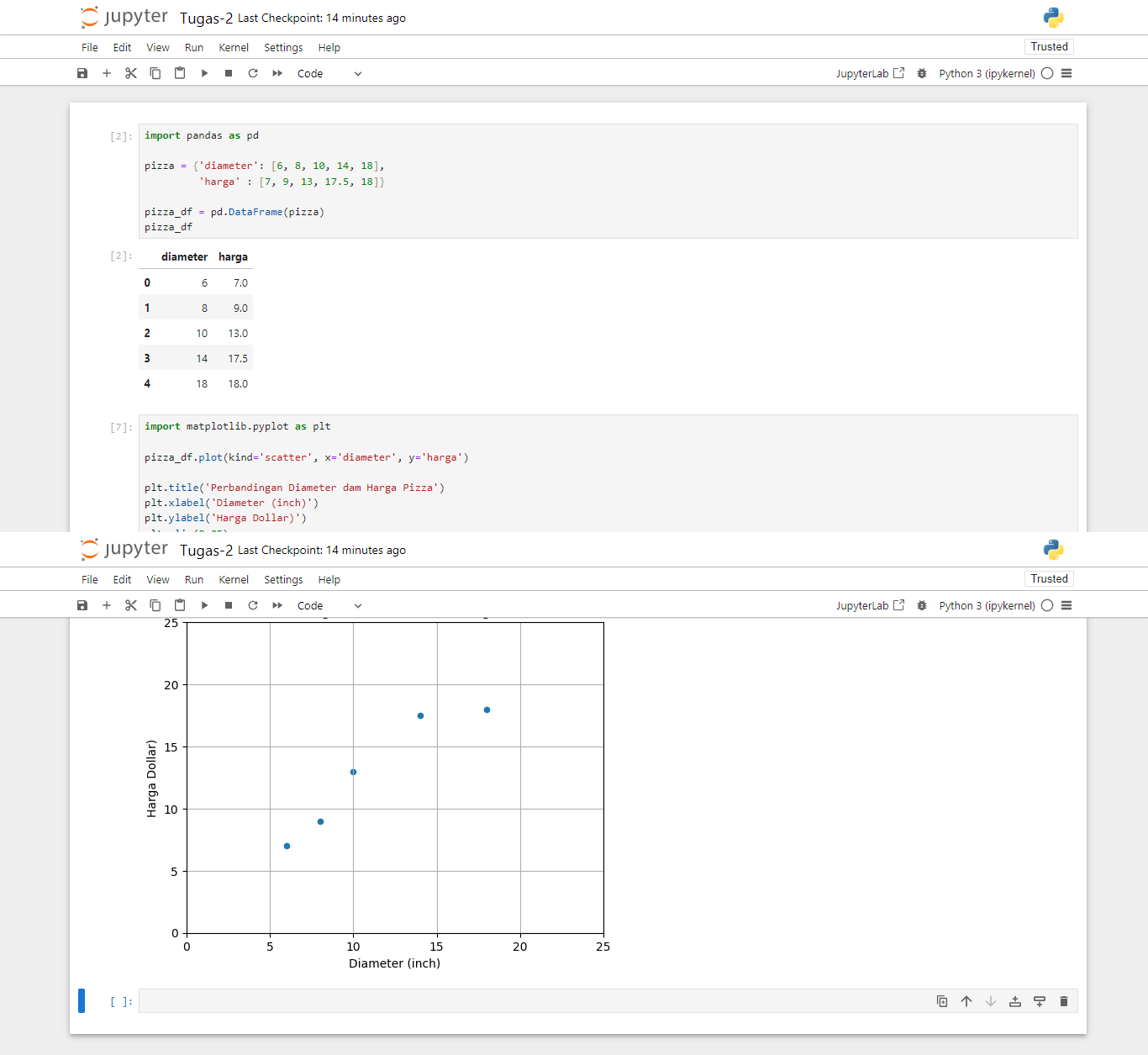
**TEKNIK INFORMATIKA**

**FAKULTAS TEKNIK**

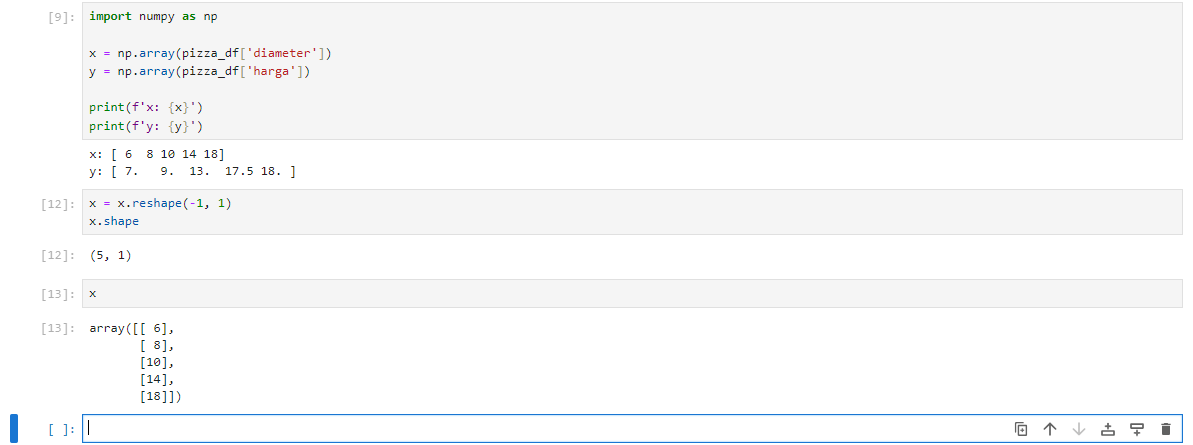
**UNIVERSITAS LANGLANGBUANA**

**2024**

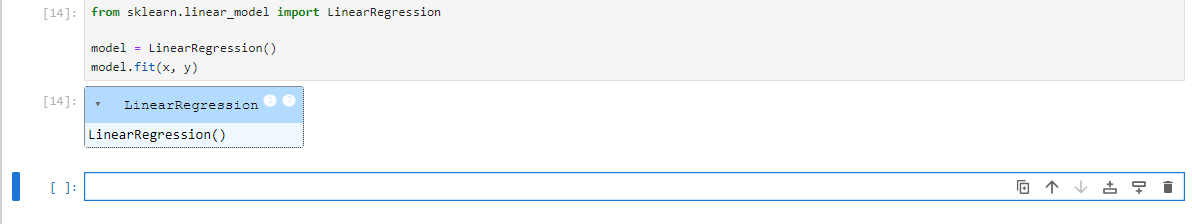
**Sample dataset**

**Visualisasi dataset**

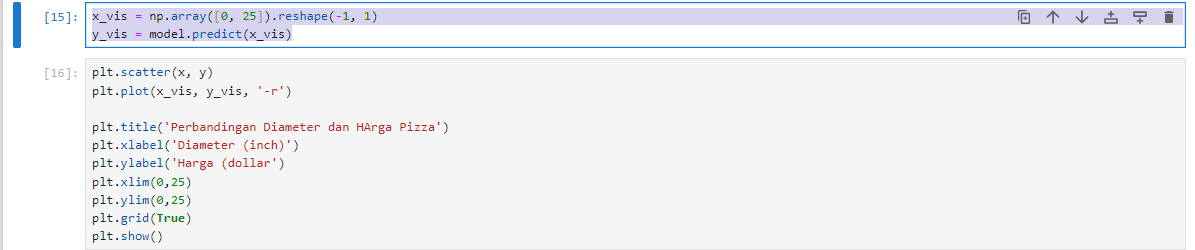
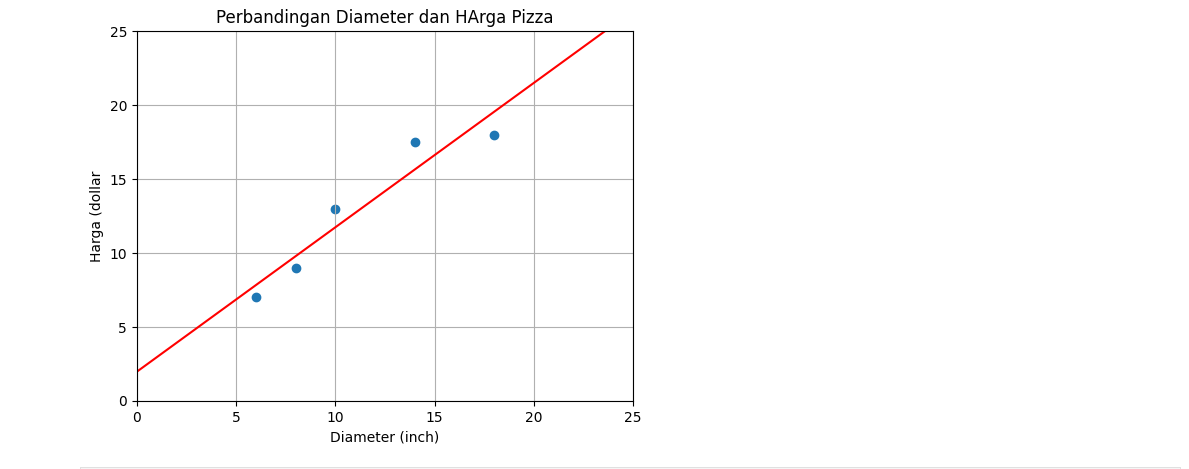
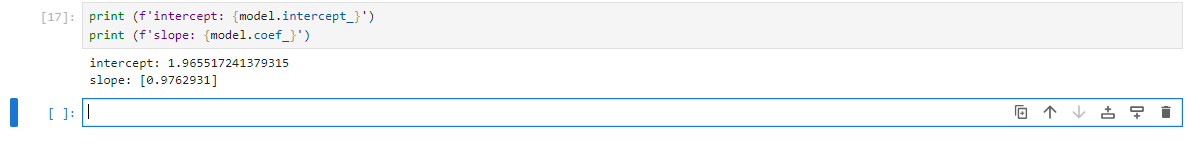
**Transformasi dataset**

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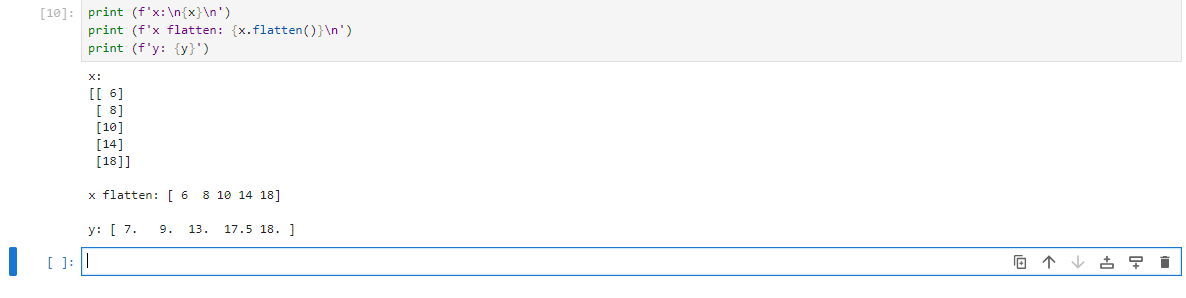
**Training Simple Linear Regression Model**



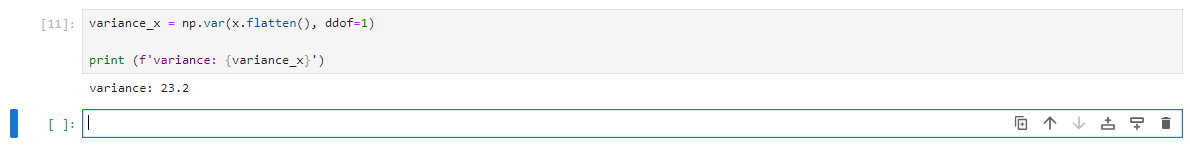
**Visualisasi Simple Linear Regression Model | Penjelasan persamaan garis linear**



**Kalkulasi nilai slope**



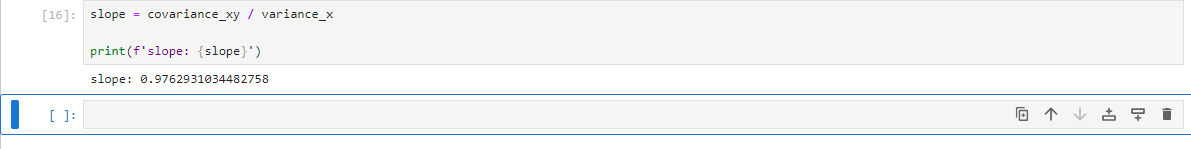
**Variance**

****

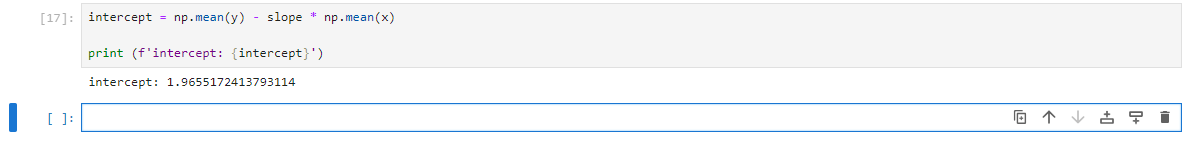
**Covariance**



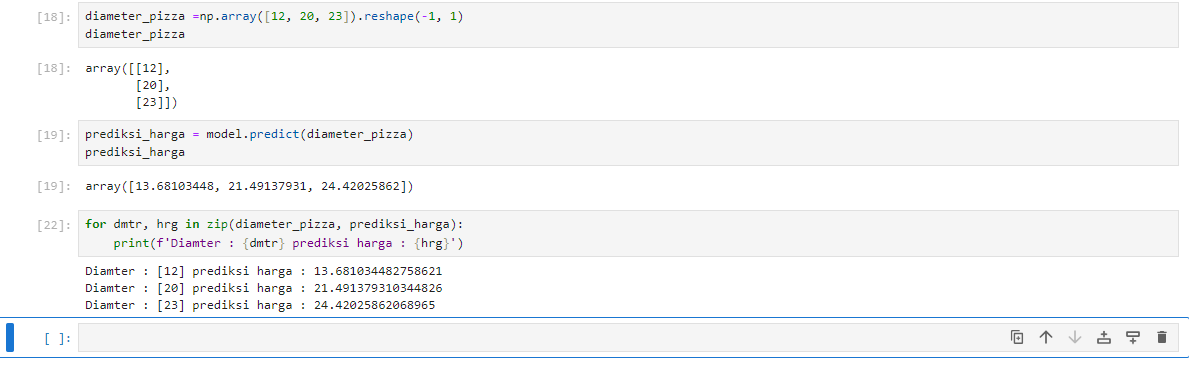
**Slope**

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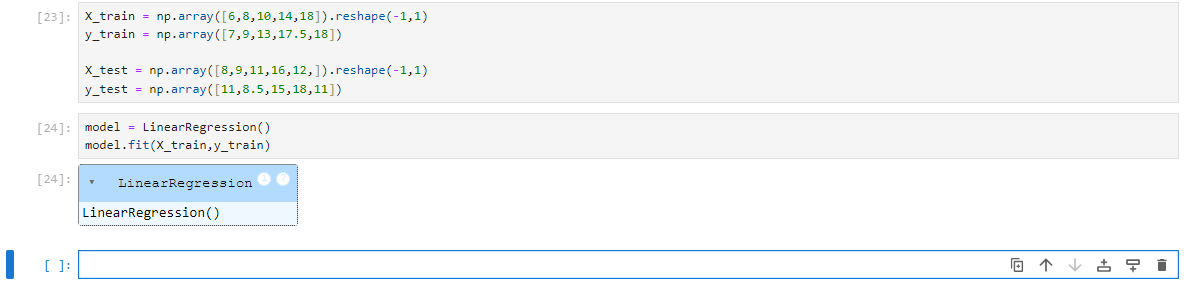
**Kalkukasi nilai intercept**

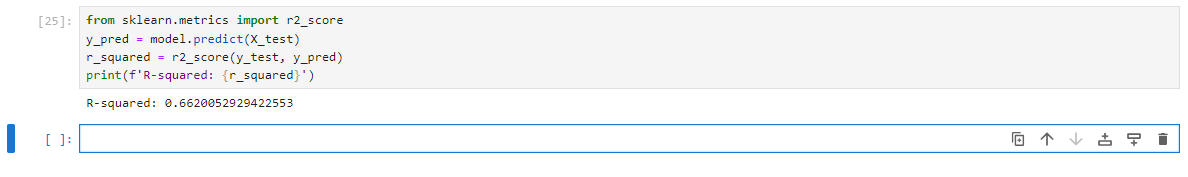


**Prediksi harga pizza dengan Simple Linear Regression Model**

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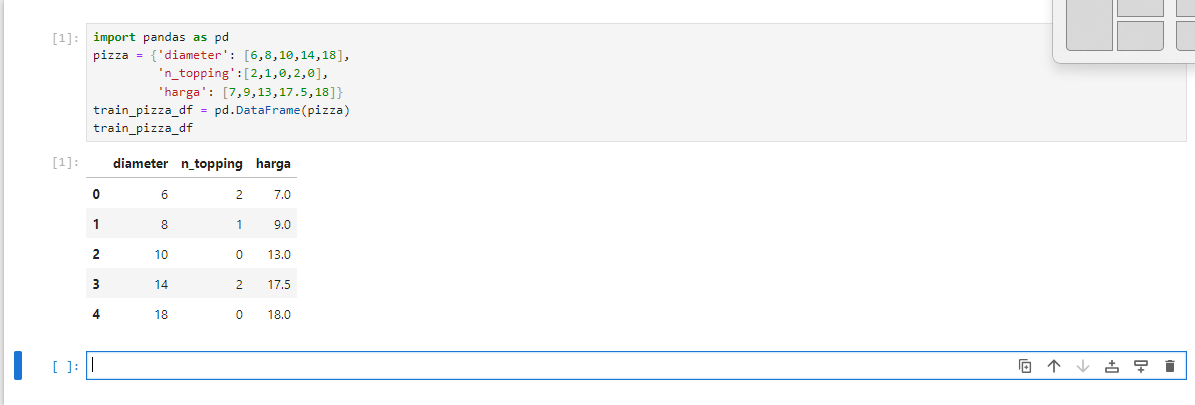
**Evaluasi model dengan Coefficient of Determination | R Squared**

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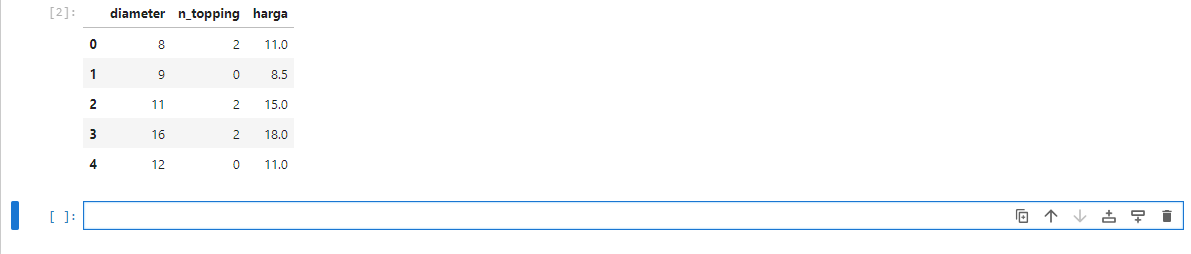


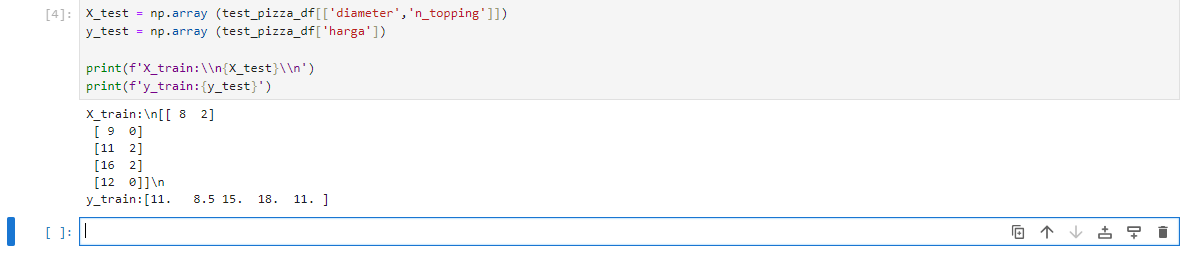
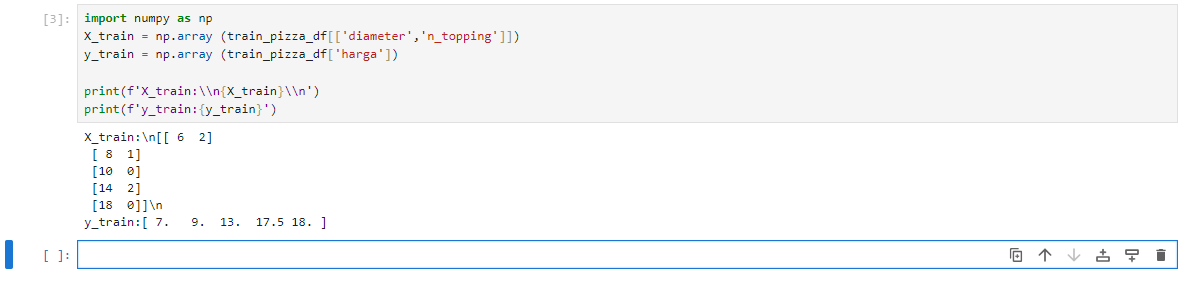
**Persiapan sample dataset**

Training Dataset

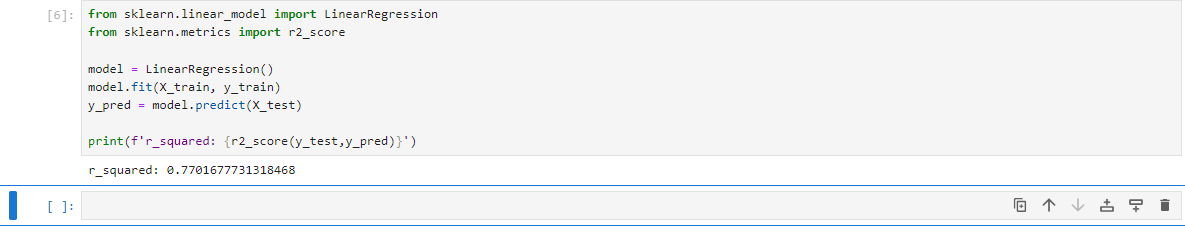


Testing Dataset



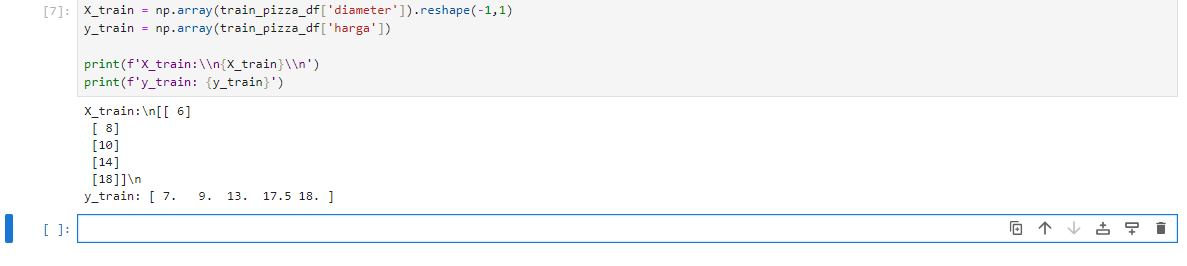
**Preprocessing dataset******

**Multiple Linear Regression**

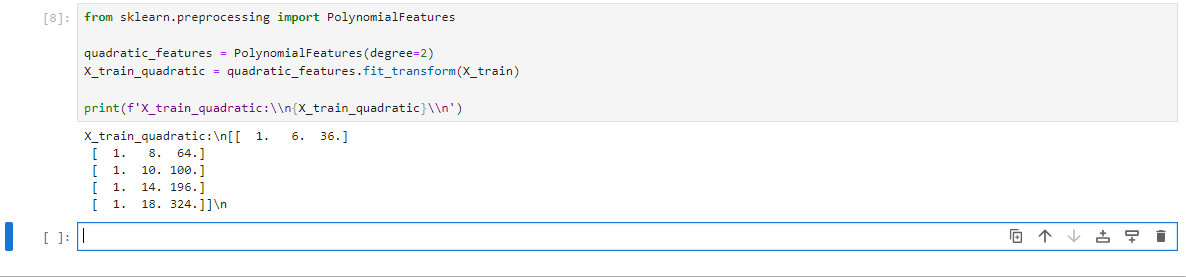


**Polynomial Regression**

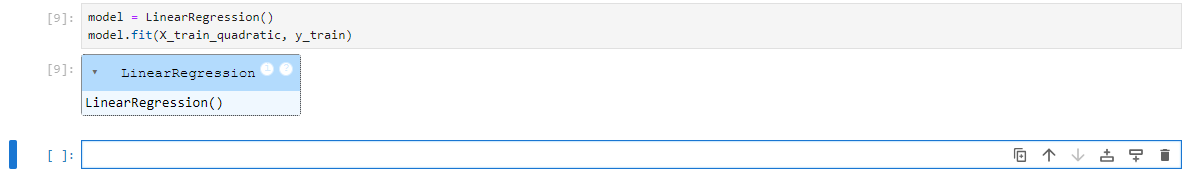
Preprocessing Dataset



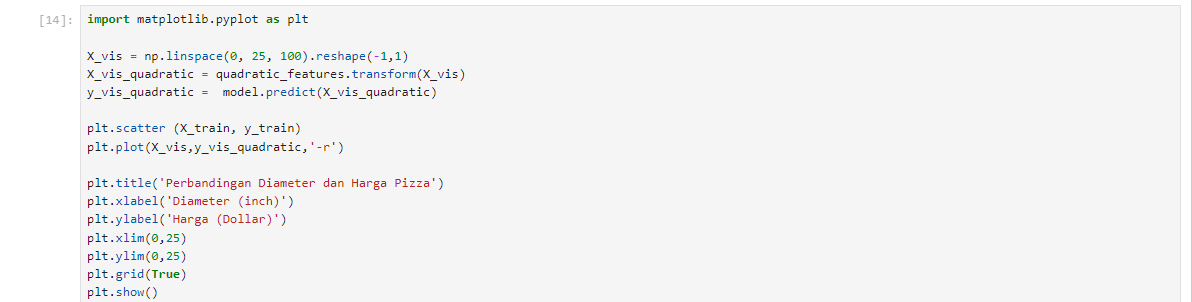
Polynomial Features

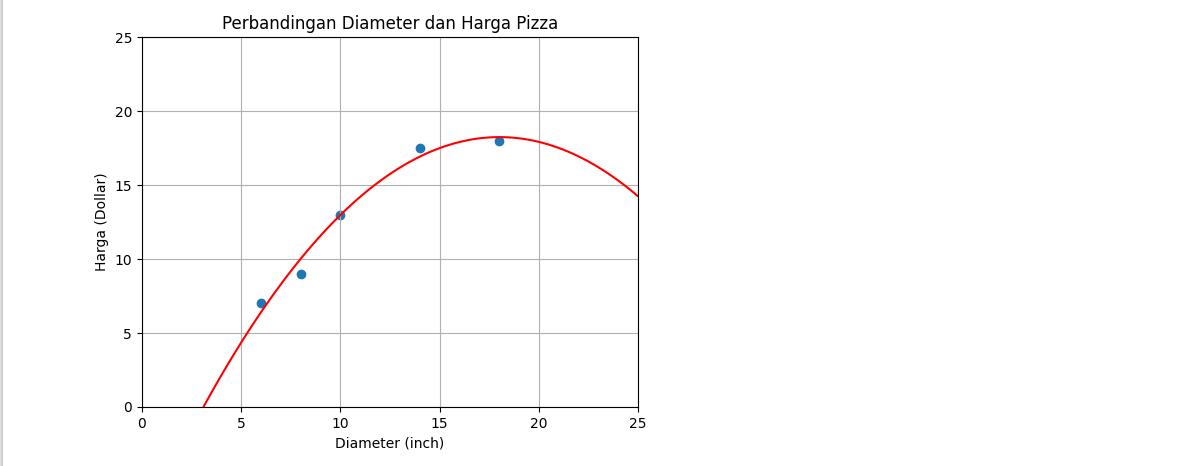


Training Model

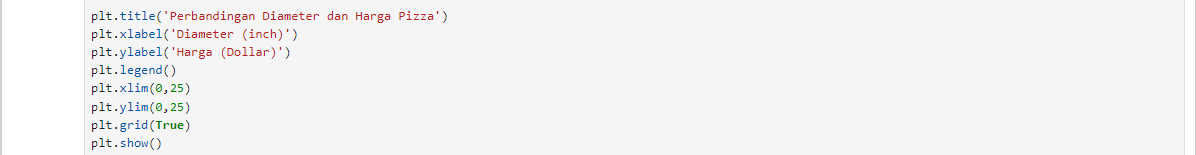


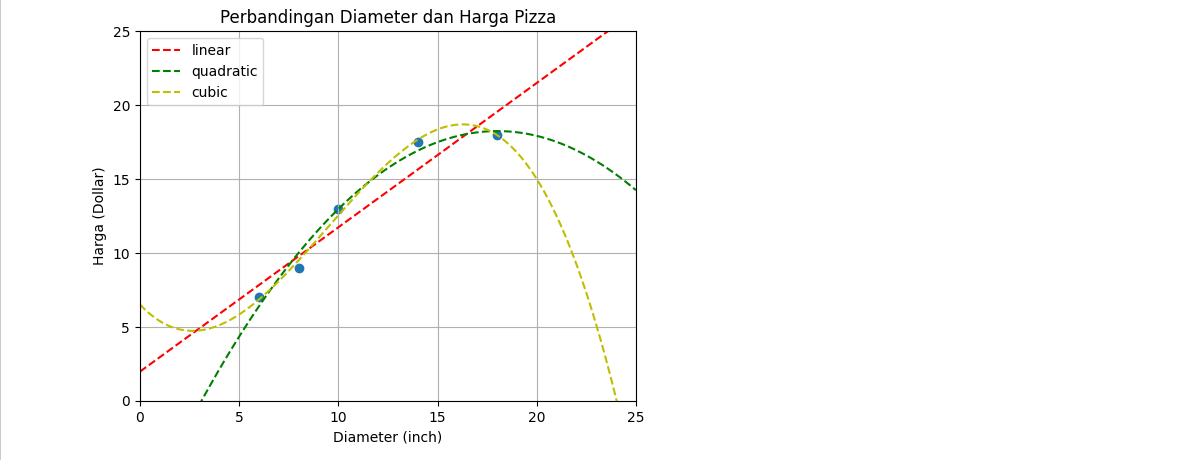
Visualisasi Model



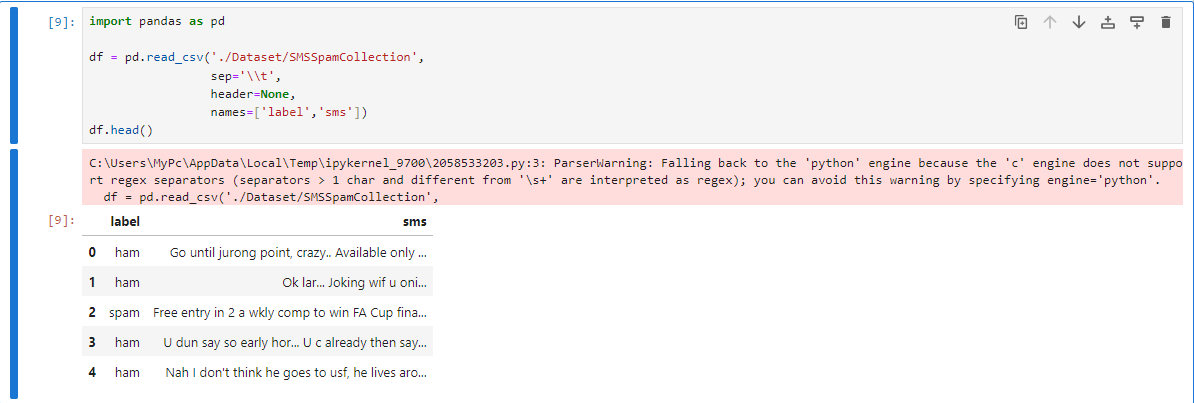
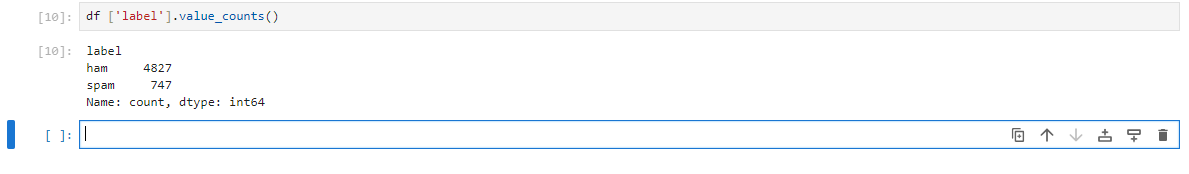


**Quadratic Polynomial Regression**

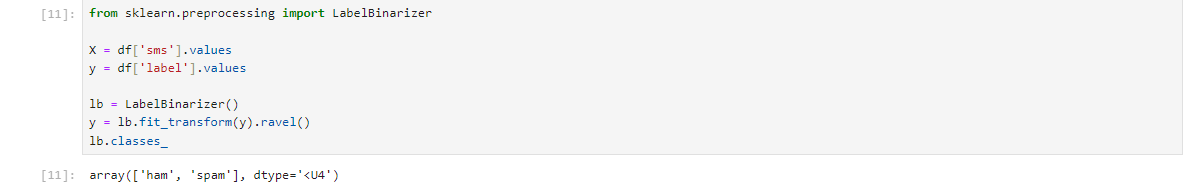
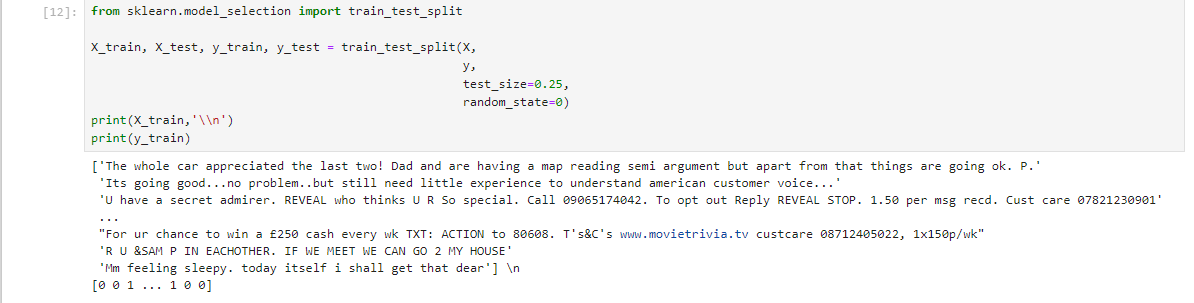
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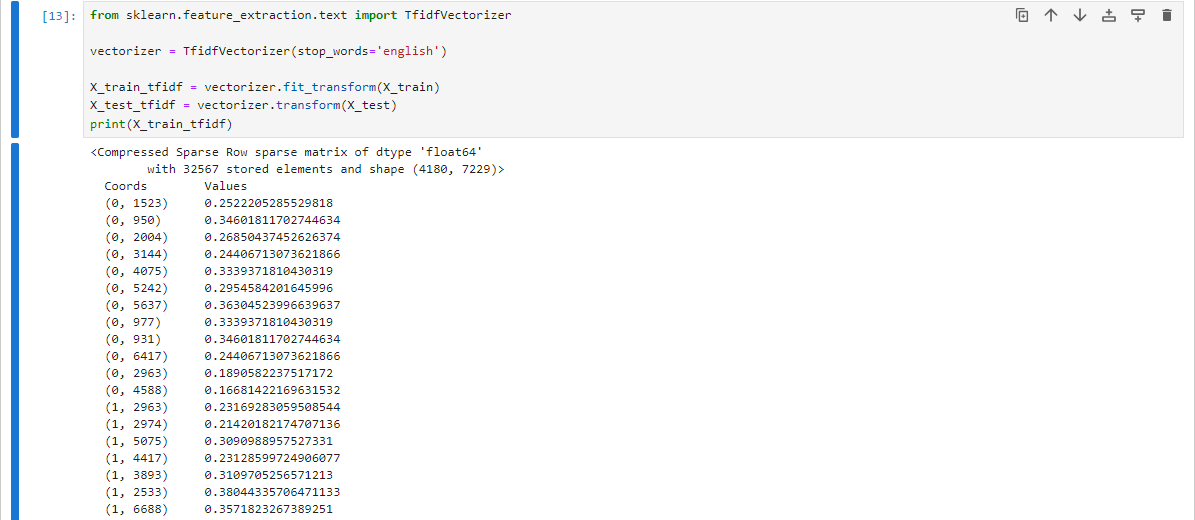
**Dataset SMS Spam Collection Dataset**



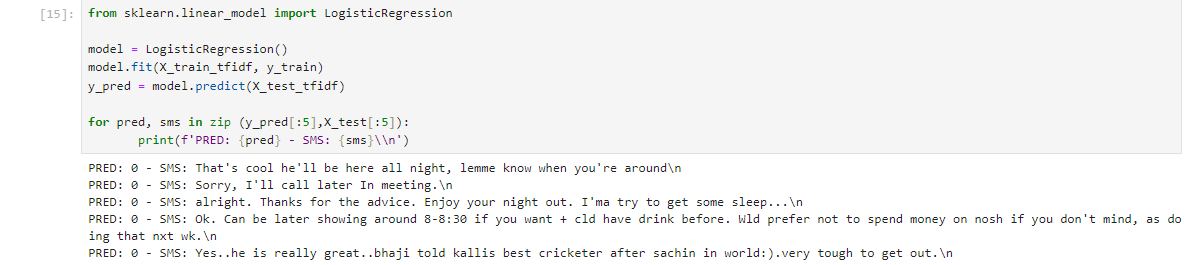
**Training & Testing Dataset**

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**Feature extraction dengan TF-IDF**

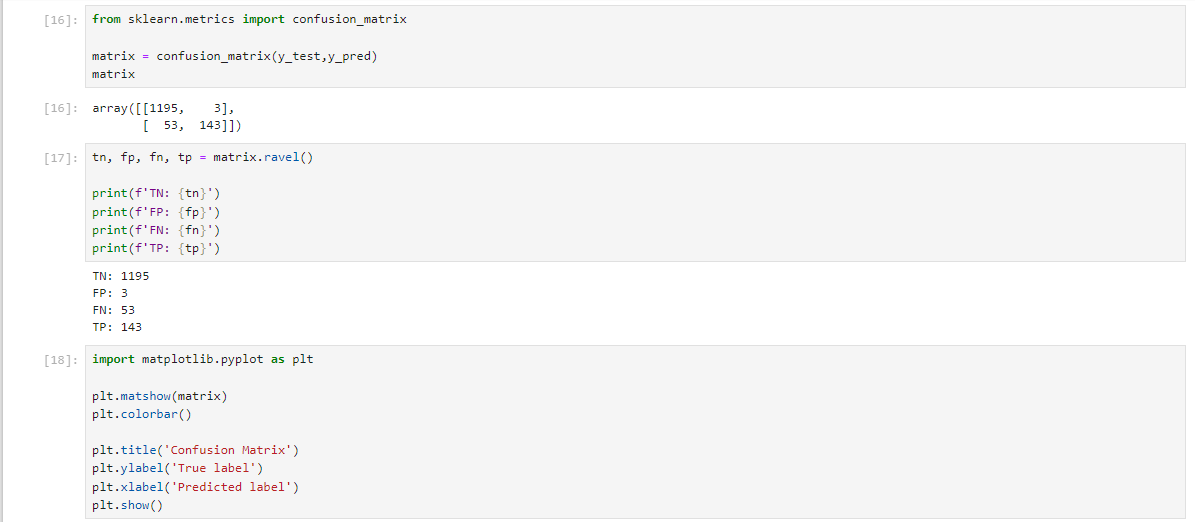
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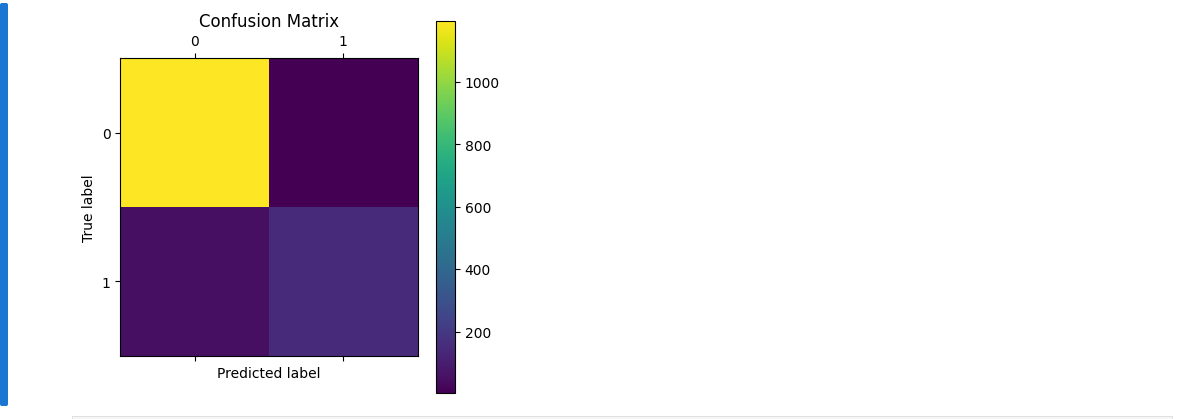
**Binary Classification dengan Logistic Regression**



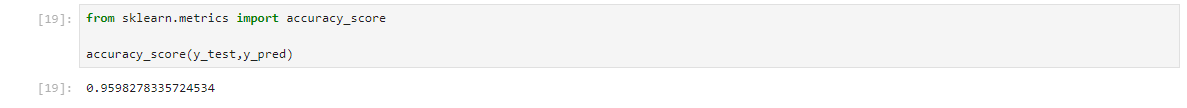
**Evaluation Metrics pada Binary Classification Task**

Confusion matrix

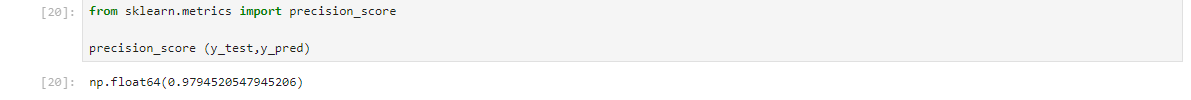




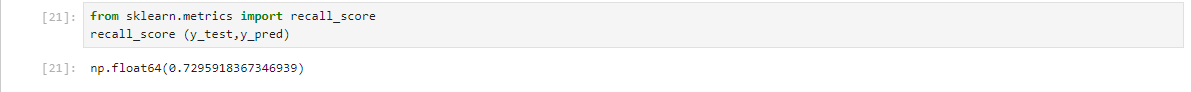
Accuracy



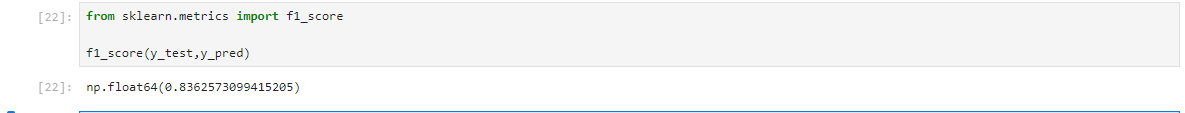
Precission & Recall



Recall



F1-Score



ROC | Receiver Operating Characteristic

