

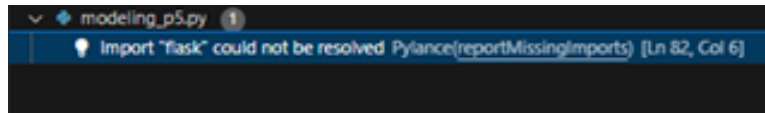
# Modeling dalam Machine Learning

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## 1. Error



```
+ Getting requirements to build wheel did not run successfully.
+ exit code: 1
+ See above for output.

note: This error originates from a subprocess, and is likely not a problem with pip.
PS C:\Users\User-PC\Documents> pip install pandas
Requirement already satisfied: pandas in c:\users\User-PC\appdata\local\programs\python\python38\lib\site-packages (2.3.1)
Requirement already satisfied: numpy>=1.22.4 in c:\users\User-PC\appdata\local\programs\python\python38\lib\site-packages (from pandas) (2.2.6)
Requirement already satisfied: python-dateutil<2.8.2 in c:\users\User-PC\appdata\local\programs\python\python38\lib\site-packages (from pandas) (2.9.0.post0)
Requirement already satisfied: pytz>=2020.1 in c:\users\User-PC\appdata\local\programs\python\python38\lib\site-packages (from pandas) (2025.2)
Requirement already satisfied: tzdata>=2022.7 in c:\users\User-PC\appdata\local\programs\python\python38\lib\site-packages (from pandas) (2025.2)
Requirement already satisfied: six>=1.5 in c:\users\User-PC\appdata\local\programs\python\python38\lib\site-packages (from python-dateutil<2.8.2->pandas) (1.17.0)
PS C:\Users\User-PC\Documents> pip install joblib
WARNING: Retrying (Retry(total=4, connect=None, read=None, redirect=None, status=None)) after connection broken by "ReadTimeoutError('HTTPConnectionPool(host='pypl.org', port=443): Read timed out. (read timeout=15))": /static/joblib-load/
ERROR: Could not find a version that satisfies the requirement joblib.load (from versions: none)
ERROR: No matching distribution found for joblib.load
PS C:\Users\User-PC\Documents> pip install joblib.load('nama_model.pkl')
+ Install the package
+ pip install joblib.load('nama_model.pkl')
+
Unexpected token ')' in expression or statement.
+ CategoryInfo          : ParserError: (1) [], ParentContainsErrorRecordException
+ FullyQualifiedErrorId : UnexpectedToken

PS C:\Users\User-PC\Documents> pip install joblib.load
ERROR: Could not find a version that satisfies the requirement joblib.load (from versions: none)
ERROR: No matching distribution found for joblib.load
PS C:\Users\User-PC\Documents> pip install joblib
Requirement already satisfied: joblib in c:\users\User-PC\appdata\local\programs\python\python38\lib\site-packages (1.5.2)
PS C:\Users\User-PC\Documents> & C:\Users\User-PC\appdata\local\programs\python\python38\python.exe c:\users\User-PC\Documents\csv\modeling_p5.py
Traceback (most recent call last):
  File "c:\users\User-PC\Documents\csv\modeling_p5.py", line 18, in <module>
    X_val, X_test, y_val, y_test = train_test_split(
  File "C:\Users\User-PC\appdata\local\programs\python\python38\lib\site-packages\sklearn\utils\param_validation.py", line 218, in wrapper
    return func(*args, **kwargs)
  File "C:\Users\User-PC\appdata\local\programs\python\python38\lib\site-packages\sklearn\model_selection\_split.py", line 2940, in train_test_split
    train_test = next(cv.split(X=wraps(X), y=wraps(y))
  File "C:\Users\User-PC\appdata\local\programs\python\python38\lib\site-packages\sklearn\model_selection\_split.py", line 1927, in split
    for train, test in self._iter_indices(X, y, groups):
  File "C:\Users\User-PC\appdata\local\programs\python\python38\lib\site-packages\sklearn\model_selection\_split.py", line 2342, in _iter_indices
    raise ValueError(
ValueError: The least populated class in y has only 1 member, which is too few. The minimum number of groups for any class cannot be less than 2.
PS C:\Users\User-PC\Documents>
```

Import could not be resolved dan "." is not defined.

Contoh yang terjadi:

Import "tensorflow" could not be resolved

Import "flask" could not be resolved

"plt" is not defined

## 2. Terjadi Pada Tahap

**Tahap Inisialisasi Kode (Importing Libraries)**, khususnya pada baris import ....

## 3. Penyebab Singkat

Ini adalah masalah lingkungan dan konfigurasi, bukan masalah logika kode:

**Penyebab Utama:** *Library* yang diperlukan (**TensorFlow, Flask, Matplotlib**) belum terinstal atau Visual Studio Code (VS Code) menggunakan *Python Interpreter* yang salah.

Jika *library* tidak terinstal, Python tidak dapat menemukan modul tersebut.

Jika VS Code menggunakan *interpreter* yang berbeda dari tempat Anda menjalankan pip install, maka *library* tersebut tidak akan terdeteksi.

**Penyebab Khusus plt:** Variabel plt (untuk Matplotlib) tidak didefinisikan karena baris import matplotlib.pyplot as plt tidak ada di awal skrip, atau diimpor di tengah kode.

#### 4. Solusi Utama

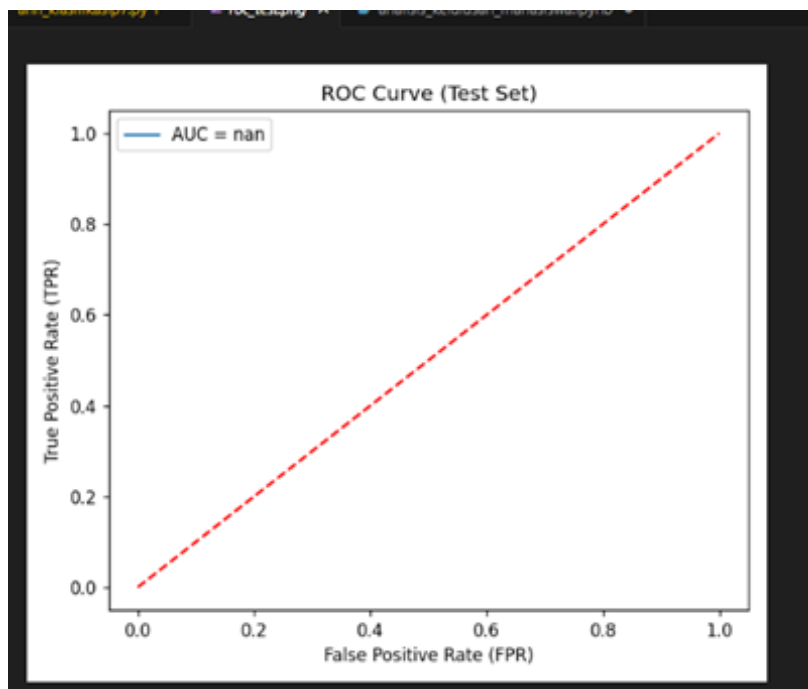
**Instalasi:** Pastikan semua *library* terinstal di *environment* yang sama:

pip install tensorflow flask matplotlib

**Verifikasi Interpreter:** Pilih *Python Interpreter* yang benar di VS Code (Ctrl+Shift+P > "Python: Select Interpreter") yang sesuai dengan lokasi Anda menginstal *library*.

**Struktur Kode:** Pastikan semua import dikelompokkan dan diletakkan di bagian paling atas skrip.

Hasil setelah diperbaiki



Menyimpan model final yang sudah dilatih ke final model.pkl menggunakan joblib

```
Model tersimpan ke 'final_model.pkl'.
PS C:\Users\ASUS\Downloads\project machine learning> C:\Users\ASUS\AppData\Local\Programs\Python\Python313\python.exe "C:\Users\ASUS\Downloads\project machine learning\modeling.py"
```