

# CARA MENJALANKAN PROGRAM

## 1. Instalasi

- Install **Python** pada mesin sesuai dengan pedoman *operating system* yang digunakan
- Buat **virtual environment (venv)**

Syntax: `python -m venv venv`

- Aktifkan environment
  - Windows: `venv\Scripts\activate`
  - Linux/MacOS: `source venv/bin/activate`

Contoh:

```
monaxia@DESKTOP-EEHJ9JC:~$ source py-dev/bin/activate
(py-dev) monaxia@DESKTOP-EEHJ9JC:~$
```

- Install **Jupyter** di dalam venv

Syntax: `pip install jupyter`

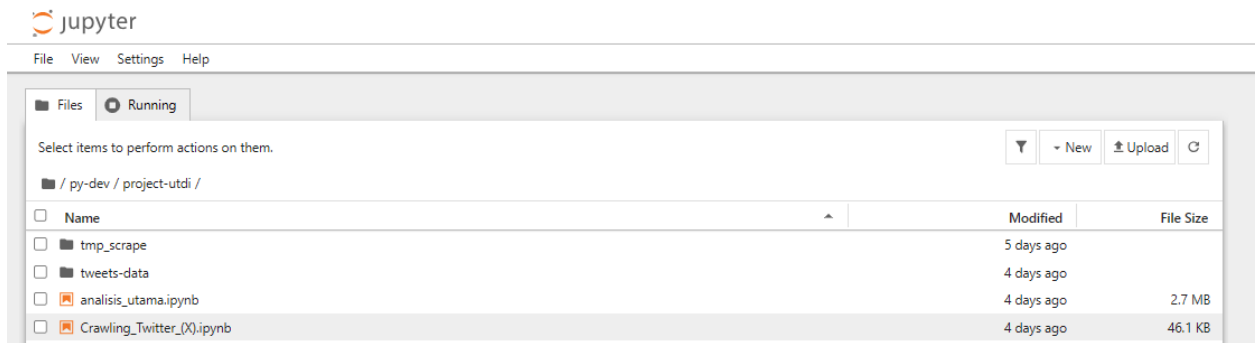
```
(py-dev) monaxia@DESKTOP-EEHJ9JC:~$ pip install jupyter
Collecting jupyter
  Downloading jupyter-1.1.1-py2.py3-none-any.whl.metadata (2.0 kB)
Requirement already satisfied: notebook in ./py-dev/lib/python3.12/site-packages (from jupyter) (7.4.2)
Collecting jupyter-console (from jupyter)
  Downloading jupyter_console-6.6.3-py3-none-any.whl.metadata (5.8 kB)
```

## 2. Running Program

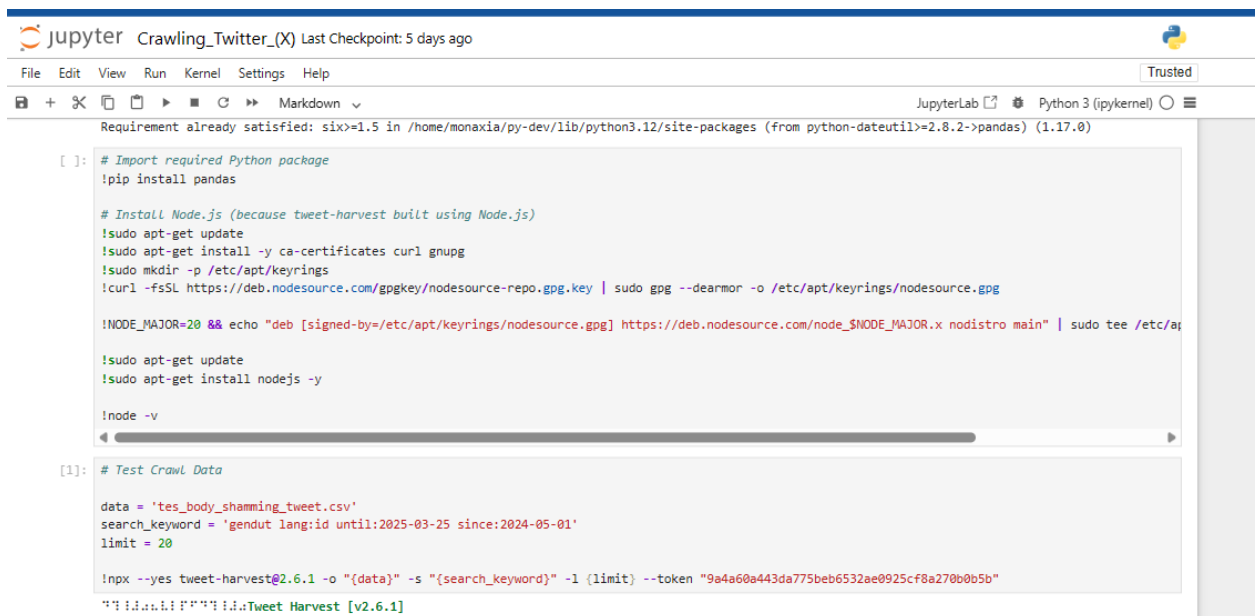
- Pastikan venv aktif
- Jalankan Jupyter Notebook

Syntax : `jupyter notebook`

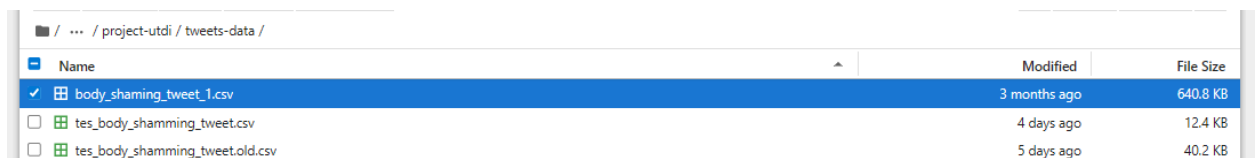
- Browser akan terbuka otomatis
- Pilih file `crawler_X.ipynb` untuk melakukan crawler data dari social media X



- Jalankan satu persatu command pada Jupyter notebook



- File akan tersimpan pada folder tweet-data dengan nama file sesuai isi file script diatas pada variable 'data'



- Setelah File data tweet didapat, Pilih file analisis\_utama.ipynb untuk melakukan preprocessing, analisis dan evaluasi pada model

jupyter analisis\_utama Last Checkpoint: 4 days ago

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Trusted

JupyterLab Python 3 (ipykernel)

Uiberi data Latinan bagus tapi data

```
[2]: #!pip install -q swifter vaderSentiment Sastrawi wordcloud nltk imbalanced-learn

[1]: # Instalasi package yang diperlukan
pip install -q swifter vaderSentiment Sastrawi wordcloud nltk imbalanced-learn

# Import library
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import string
import re
import nltk
import swifter
from nltk.tokenize import word_tokenize
from nltk.corpus import stopwords
from vaderSentiment.vaderSentiment import SentimentIntensityAnalyzer
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.model_selection import train_test_split, GridSearchCV, cross_val_score
from sklearn.naive_bayes import MultinomialNB
from sklearn.ensemble import RandomForestClassifier
from sklearn.metrics import accuracy_score, classification_report, confusion_matrix, f1_score
from wordcloud import WordCloud
from Sastrawi.Stemmer.StemmerFactory import StemmerFactory
from imblearn.combine import SMOTEENN
import joblib

[2]: # Download resource NLTK
nltk.download('punkt')
nltk.download('stopwords')

[nltk_data] Downloading package punkt to /home/monaxia/nltk_data...
[nltk_data] Package punkt is already up-to-date!
[nltk_data] Downloading package stopwords to
[nltk_data] /home/monaxia/nltk_data...
[nltk_data] Package stopwords is already up-to-date!

[2]: True

[3]: # dataset
print("Membaca dataset...")
df = pd.read_csv('tweets-data/body_shaming_tweet_1.csv')
df = df[['full_text']].dropna()
df.head()

Membaca dataset...

---
```