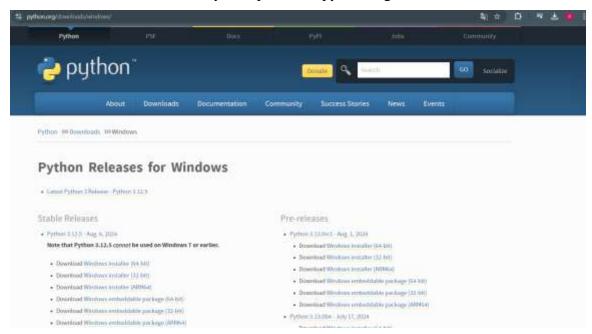
## Panduan Installation Aplikasi Identifikation Pencemaran Udara

Aplikasi berbasis website ini adalah program dari tugas akhir dengan judul "Identifikasi Pencemaran Udara Menggunakan Metode Random Forest". Berikut ini langkah-langkah instalasi yaitu:

1. Cek pada laptop atau komputer anda apakah sudah di install python. Jika belum unduh terlebih dahulu pyhton pada website resminya. Disini saya berikan contoh untuk sistem operasi windows. Ini link untuk downloadnya "https://www.python.org/downloads/windows/"



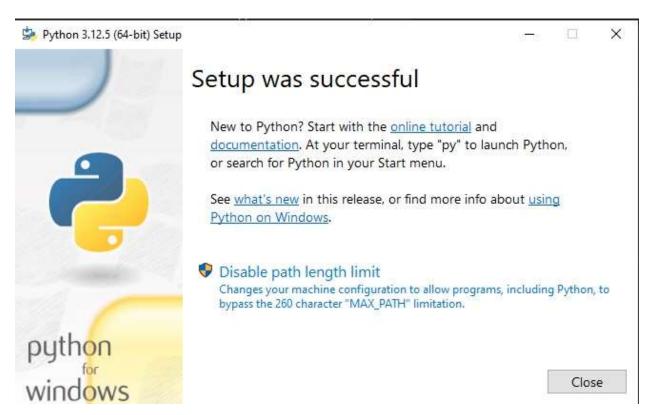
2. Di sini saya memilih versi python 3.12.5 seperti di bawah ini.



3. Kemudian tunggu hingga download selesai, kemudian buka file instalasi python centang bagian "Add PYTHON.exe to PATH" dan "Use admin previleges when installing py.exe" agar dapat semua perintah python semua direktori pada komputer dengan command prompt. Kemudia klik "Install Now". Seperti dibawah ini.



4. Kemudian setelah instalasi selesai, klik pada pilihan "Disable path leght limit" untuk menonaktifkan batasan path direktori pada saat penggunaan python.



5. Kemudain buka command prompt dan ketik "py -0". Klik enter maka akan muncul seperti dibawah ini.



- 6. Unduh file aplikasi indentifikasi pencemaran udara.rar. Kemudian ekstraksi file dengan mengklik kanan pilih "Extract Here" maka akan muncul seperti ini.
  - Website Identifikasi Pencemaran Udara
    Website Identifikasi Pencemaran Udara.rar
- 7. Setelah aplikasi di extract, kemudiaan buka command prompt. Pada command prompt ubah sesuai dengan direktori tempat file website identifikasi pencemaran udara tersimpan. Contoh ketika anda menaruh file "Website Identifiasi Pencemaran Udara.rar" pada folder Document. Kemudian pada comand prompt ketik "cd \Users\lenovo\Documents\Website Identifikasi Pencemaran Udara"

```
C:\Users\lenovo\Documents\Website Identifikasi Pencemaran Udara>
```

8. Kemudian jalankan "pip install -r requirement.txt" di command prompt untuk menginstall library yang di butuhkan. Jika anda terkendala seperti dibawah ini.

```
Administrator: Command Prompt
dicrosoft Windows [Version 10.0.19845.4651]
(c) Microsoft Corporation. All rights reserved.
::\Users\Win10>py -0
                           Python 3.12 (64-bit)
 -V:3.12 *
:\Users\Win10>cd Users\Win10\Documents\Website Identifikasi Pencemaran Udara
The system cannot find the path specified.
::\Users\Win10>cd \Users\Win10\Documents\Website Identifikasi Pencemaran Udara
:\Users\Winl0\Documents\Website Identifikasi Pencemaran Udara>pip install -r requirements
C:\Users\Win10\Documents\Website Identifikasi Pencemaran Udara>pip install -r requirements.txt
C:\Users\Winia\Documents\Website identifikasi Pencemaran Udara>pip inst
Collecting streamlit=-1.2.0 (from -r requirements.txt (line 1)
Downloading streamlit 1.2.0-py2.py3-none-amy.whl.metadata (1.1 k8)
Collecting pickleshare=-0.7.5 (from -r requirements.txt (line 2))
Downloading pickleshare=0.7.5-py2.py3-none-amy.whl.metadata (1.5 k8)
Collecting scikit-learn==1.0.1 (from -r requirements.txt (line 3))
Downloading scikit-learn=1.0.1.tar.gz (6.6 M8)
                                                                         6.676.6 MI 4.0 MI/s eta 9:00:00
  Installing build dependencies ... done
Getting requirements to build wheel ... done
  Preparing metadata (pyproject.toml) ... error
error: subprocess-exited-with-error
     Preparing metadata (pyproject.toml) did not run successfully. exit code: 1
```

9. Maka anda harus ketik di command prompt "pip install streamlit"

```
C:\Unerc\Win10\Documents\Website Identifikasi Pencenaran Udara>pip install streamlit
Collecting streamlit.
Downloading streamlit.1.37.1-py2.py3-none-any.whl.metadata (8.5 k3)
Collecting altaire.5.3.6.0 (from streamlit)
Downloading altair.5.3.6.py3-none-any.whl.metadata (7.2 k8)
Collecting blinker2.p.1.8.0 (from streamlit)
Downloading talinker-1.8.2-py3-none-any.whl.metadata (1.6 k8)
Collecting techetools.6.4.0 (from streamlit)
Downloading cachetools.6.4.0 (from streamlit)
Downloading clicks.1.7-py3-none-any.whl.metadata (5.3 k8)
Collecting clicks9.>-7.0 (from streamlit)
Downloading clicks.1.7-py3-none-any.whl.metadata (3.8 k8)
Collecting numpy-2.0.1-cp112-cp312-wln amd64.whl.metadata (60 k8)
Collecting pockspings25.>-20 (from streamlit)
Downloading packaging-24.1-py3-none-any.whl.metadata (3.2 k8)
Collecting pockspings25.>-2.0 (from streamlit)
Downloading pandas-2.2.2-cp312-cp312-wln amd64.whl.metadata (10 k8)
Collecting pondos-3.7.3.1.0 (from streamlit)
Downloading pillow-10.4.0-cp312-cp312-wln amd64.whl.metadata (9.3 k8)
Collecting propos-7.0 (from streamlit)
Downloading propos-7.0 (from streamlit)
```

10. Kemudian anda harus ketik di command prompt "pip install pickleshare"

```
C:\Users\Win10\Documents\Website Identifikasi Pencemaran Udara>pip install pickleshare
Collecting pickleshare
Using cached pickleshare-0.7.5-py2.py3-none-any.whl.metadata (1.5 kB)
Downloading pickleshare-0.7.5-py2.py3-none-any.whl (6.9 kB)
Installing collected packages: pickleshare
Successfully installed pickleshare-0.7.5
```

11. Kemudian anda harus ketik di command prompt "pip install scikit-learn"

12. Kemudian anda harus ketik di command prompt "pip install numpy"

```
C:\Users\Win10\Documents\Website Identifikasi Pencemaran Udara>pip install numpy
Requirement already satisfied: numpy in c:\users\win10\appdata\local\programs\python\python312\lib\site-packages (2.0.1)
```

13. Kemudian anda harus ketik di command prompt "pip install scipy"

```
C:\Users\Win10\Documents\Website Identifikasi Pencemaran Udara>pip install scipy
Requirement already satisfied: scipy in c:\users\win10\appdata\local\programs\python\python312\lib\site-packages (1.14.0)
Requirement already satisfied: numpy<2.3,>=1.23.5 in c:\users\win10\appdata\local\programs\python\python312\lib\site-packages (from scipy) (2.0.1)
```

14. Kemudian anda harus ketik di command prompt "pip install matplotlib"

```
ED Administrator. Command Prompt

C:\Users\Win10\Oocuments\Website Identifikasi Pencemaran Udara>pip install matplotlib
Collecting matplotlib-3.9.1.post1-cp312-cp312-win_amd64.whl.metadata (11 kB)
Collecting contourpy>1.0.1 (from matplotlib)
Downloading contourpy>1.2.1.cp312-cp312-win_amd64.whl.metadata (5.8 kB)
Collecting cycler>-0.10 (from matplotlib)
Downloading cycler-0.12.1-py3-none-any.whl.metadata (3.8 kB)
Collecting fonttools>-4.22.0 (from matplotlib)
Downloading fonttools>-4.22.0 (from matplotlib)
Downloading fonttools-4.53.1 (from matplotlib)
Downloading kiwisolver>-1.3.1 (from matplotlib)
Downloading kiwisolver>-1.3.1 (from matplotlib)
Downloading kiwisolver>-1.4.5-cp312-cp312-win_amd64.whl.metadata (6.5 kB)
Requirement already satisfied: numpy>=1.23 in c:\users\win10\appdata\local\programs\python\python312\lib\site-packages (from matplotlib) (2.0.1)
Requirement already satisfied: packaging>-20.0 in c:\users\win10\appdata\local\programs\python\python312\lib\site-package s(from matplotlib) (10.4.0)
Collecting pyparsing>-2.3.1 (from matplotlib)
Downloading pyparsing>-2.3.1 (from matplotlib)
Downloading pyparsing>-2.3.1 (from matplotlib)
Downloading pyparsing>-2.3.1 (from matplotlib)
Requirement already satisfied: pithon-dateutil>-2.7 in c:\users\win10\appdata\local\programs\python\python312\lib\site-packages (from matplotlib) (10.4.0)
Requirement already satisfied: python-dateutil>-2.7 in c:\users\win10\appdata\local\programs\python\python312\lib\site-packages (from matplotlib) (2.0.p.post0)
Bequirement already satisfied: six>-1.5 in c:\users\win10\appdata\local\programs\python\python312\lib\site-packages (from mython-dateutil>-2.7-matplotlib) (1.16.0)
Bequirement already satisfied: six>-1.5 in c:\users\win10\appdata\local\programs\python\python312\lib\site-packages (from mython-dateutil>-2.7-matplotlib) (1.16.0)
Bequirement already satisfied: six>-1.5 in c:\users\win10\appdata\local\programs\python\python312\lib\site-packages (from mython-dateutil>-2.7-matplotlib) (1.16.0)
Bequirement already satisfie
```

15. Kemudian anda harus ketik di command prompt "pip install streamlit"

```
C:\Users\Win1@\Documents\Website Identifikasi Pencemaran Udara>pip install pandas
Requirement already satisfied: pandas in c:\users\win1@\appdata\local\programs\python\python312\lib\site-packages (2.2.2
)
Requirement already satisfied: numpy>-1.26.@ in c:\users\win1@\appdata\local\programs\python\python312\lib\site-packages (from pandas) (2.8.1)
Requirement already satisfied: python-dateutil>-2.8.2 in c:\users\win1@\appdata\local\programs\python\python312\lib\site -packages (from pandas) (2.9.@.post@)
Requirement already satisfied: pytz>-2@2@.1 in c:\users\win1@\appdata\local\programs\python\python312\lib\site-packages (from pandas) (2@24.1)
Requirement already satisfied: tzdata>=2@22.7 in c:\users\win1@\appdata\local\programs\python\python312\lib\site-package s (from pandas) (2@24.1)
Requirement already satisfied: six>=1.5 in c:\users\win1@\appdata\local\programs\python\python312\lib\site-packages (from python-dateutil>=2.8.2->pandas) (1.16.0)
```

16. kemudian ketik "streamlit run app.py", jika muncul tampilan seperti dibawah ini masukkan email anda.

```
C:\Users\Win10\Documents\Website Identifikasi Pencemaran Udara>streamlit run app.py

Welcome to Streamlit!

If you'd like to receive helpful onboarding emails, news, offers, promotions, and the occasional swag, please enter your email address below. Otherwise, leave this field blank.
```

17. kemuadian akan mucul local url seperti http://localhost:8501.

18. kemudian di copy di chrome maka akan mucul tampilan seperti dibawah ini. Maka instalasi aplikasi telah selesai.



19. Jika muncul tampilan seperti di bawah ini pilih "Allow access" agar aplikasi dapat berjalan.

