JUPYTER NOTEBOOK INSTALLATION USING ANACONDA

Mata kuliah : Kecerdasan Buatan

Kelas : H dan I

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Asisten : Ulfah Nur Oktaviana

PENGANTAR

1. Apa itu Jupyter Notebook

Jupyter (https://jupyter.org/) adalah organisasi non-profit untuk mengembangkan software interaktif dalam berbagai Bahasa pemrograman. Notebook adalah alah satu software buatan Jupyter.

Jupyter Notebook adalah aplikasi web open-source yang memungkinkan anda untuk membuat dan membagi dokumen yang berisi live code, equations, visualizations dan text naratif. Penggunaannya meliputi : data cleansing and transformation, numerical simulation, statistical modelling, data visualization, machine learning, and much more.

2. Lalu apa manfaat Jupyter Notebook?

- a. Visualisasi Data
- b. Memungkinkan untuk berbagi kode
- c. Dapat melakukan interaksi langsung dengan kode
- d. Dapat mendokumentasikan kode.

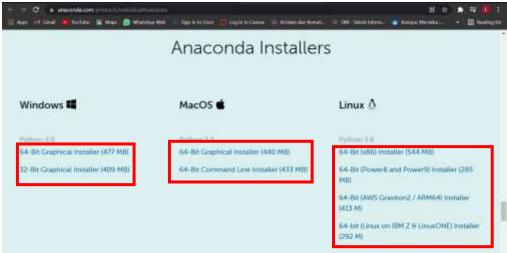
INSTALASI JUPYTER NOTEBOOK MENGGUNAKAN ANACONDA

1. Step 1 : Download dan Install Anaconda

Buka website https://www.anaconda.com/ scroll kebawah hingga menemukan tampilan sebagai berikut



• Download file anaconda sesuai dengan system operasi yang anda gunakan.



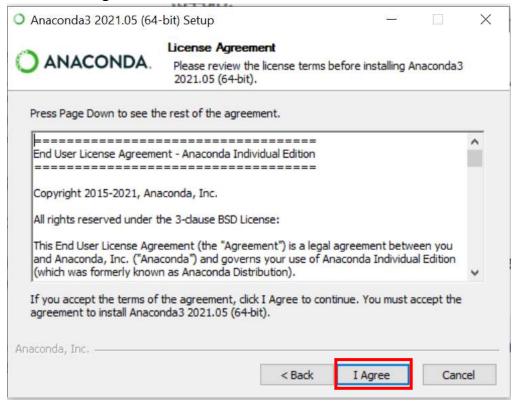
Klik 2 kali File anaconda.exe yang sudah berhasil di download



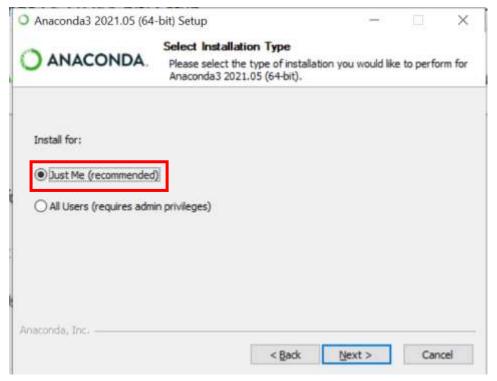
• Klik next seperti pada tampilan dibawah



• Klik tombol I Agree



Kemudian, pilih Just Me and Click on Next



• Pilih Lokasi Intalasi dan klik Next





Choose Install Location

Choose the folder in which to install Anaconda3 2021.05 (64-bit).

X

Setup will install Anaconda3 2021.05 (64-bit) in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue.

Destination Folder

C:\Users\Ulfah Nur Oktaviana\anaconda3

Browse...

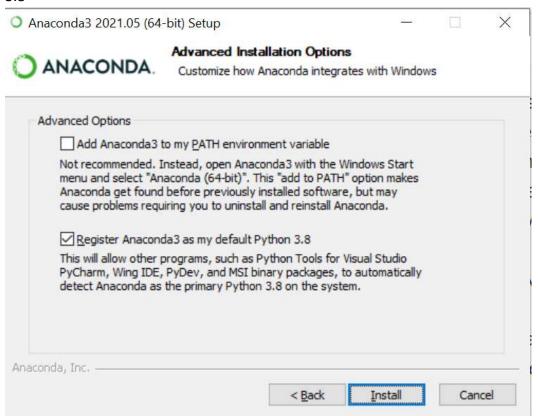
Space required: 2.9GB
Space available: 78.5GB

Anaconda, Inc.

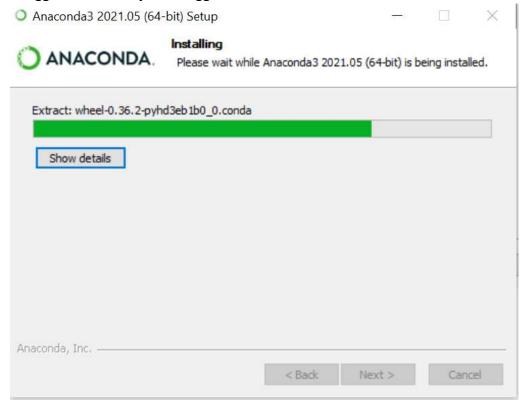
< Back

Next > Cancel

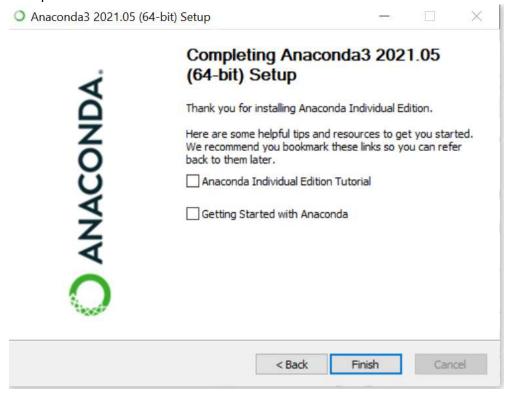
Pada opsi Advanced Options Pilih "Register Andaconda3 as my default python
 3.8"



Tunggu instalasi berjalan hingga selesai



• Tahap terakhir Klik Finish dan instalasi Anaconda telah berhasil



2. Step 2: Membuka Jupyter Notebook menggunakan Anaconda Promp

• Klik windows dan search "Anaconda Promp" lalu ketikkan "jupyter notebook", maka akan memunculkan tampilan seperti dibawah ini :

```
Anaconde Prompt (anacondes) - jupyter notebook

(base) C:\Users\Ulfah Nur Oktaviana>jupyter notebook

[I 2821-18-13 12:54:34.972 LabApp] JupyterLab extension loaded from C:\Users\Ulfah Nur Oktaviana\anaconda3\lib\site-pack
ages\jupyterlab

[I 2821-18-13 11:54:34.972 LabApp] JupyterLab application directory is C:\Users\Ulfah Nur Oktaviana\anaconda3\share\jupy
terlab

[I 11:54:34.979 NotebookApp] Serving notebooks from local directory: C:\Users\Ulfah Nur Oktaviana

[I 11:54:34.979 NotebookApp] Jupyter Notebook 6.3.0 is running at:

[I 11:54:34.979 NotebookApp] http://localhost:8888/?token=cbce2e4f11f9d96c127f6a6b78a226bef79b59a285518b1f

[I 11:54:34.980 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).

[C 11:54:35.935 NotebookApp]

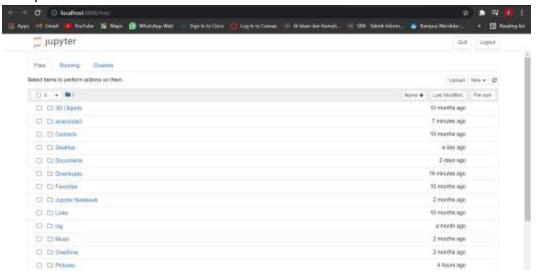
To access the notebook, open this file in a browser:
    file://C:/Users/UlfahN28Nur%28Oktaviana/AppOata/Roaming/jupyter/runtime/nbserver-4372-open.html

Or copy and pasts one of those URLs:
    http://localhost:8888/?token=cbce2e4f11f9d96c127f6a6b78a226bef79b59e285518b1f

or http://localhost:8888/?token=cbce2e4f11f9d96c127f6a6b78a226bef79b59e285518b1f

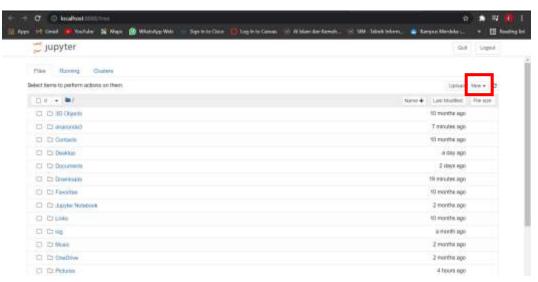
or http://localhost:8888/?token=cbce2e4f11f9d96c127f6a6b78a226bef79b59e285518b1f
```

• Ketika tperintah terminal berjalan, jupyter notebook akan terbuka pada local host pada browser.

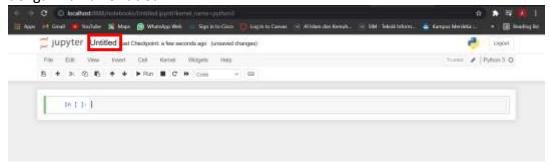


3. Step 3: Membuat file di anaconda

• Pilih tombol New pada halaman kanan atas dan pilih "Python 3"



• Setelah file Notebook berhasil dibuat, rename sesuai keinginan pada tulisan dengan nama "Untitled".

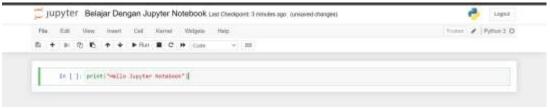


Ganti nama file lalu klik Rename

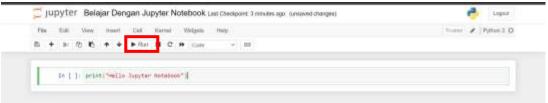


4. Step 4: Lets'Code with Jupyter Notebook

Tulis code pada window code



Untuk menjalankan tekan tombol Run pada bagian atas.



• Output dari eksekusi code akan tampil dibawah window code.



Untuk menambahkan window code tekan tombol + (plus)



5. Step 5: Install Library yang dibutuhkan

Note: Didalam jupyter notebook tidak banyak disediakan library yang sudah terinclude. Salah satu cara menggunakan library yaitu menginstall terlebih dahulu dengan menggunakan perintah "!pip install (nama library)". Namun, penginstalan library dapat dilakukan dengan menggunakan anaconda. Lihat link berikut untuk lebih lengkapnya (https://docs.anaconda.com/anaconda/navigator/tutorials/pandas/).

Install Pandas



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In [8]: Impore namey as rp

In [9]: Impore namey as rp

In [9]: Impore namey as rp

In [9]: Print(np.__version__)

1.20.1
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Scipy

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In [18] ipip install scipy

Maquirement already satisfied: scipy in c:\users\ulfah nur oktaviana\anacondat\lib\site-packages (1.8.2)

Requirement already satisfied: nuegy(1.28.0) >=1.16.5 in c:\users\ulfah nur oktaviana\anacondat\lib\site-packages (from scipy)

In [18]: import scipy as sys

In [18]: print(sys__version__)

1.6.2
```

Matplotlib

```
In [38]: [six install mashors

Requirement already satisfies; seasors in classers/wifes nor obtavious/areconde/libraite-pockages (0.11.1)

Requirement already satisfies; seasors in classers/wifes nor obtavious/areconde/libraite-packages (from seasors) [1.28.3)

Requirement already satisfies; seasors in classers/wifes nor obtavious/areconde/libraite-packages (from seasors) [1.2.3)

Requirement already satisfies; pandance.38 is crossers/wifes nor obtavious/areconde/libraite-packages (from seasors) [1.3.4)

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Sklearn

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