

Pendahuluan

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Apa yang akan kita bahas?

Perkenalan

Kontrak Kuliah

Pengantar
Machine Learning

Instalasi Anaconda

Basic Python

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01

Perkenalan

Perkenalan

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02

Kontrak Kuliah

Penilaian

Kuis

35%

Tugas Individu

30%

Tugas Besar

20%

Kehadiran

10%

Keaktifan

5%

Peraturan Kelas

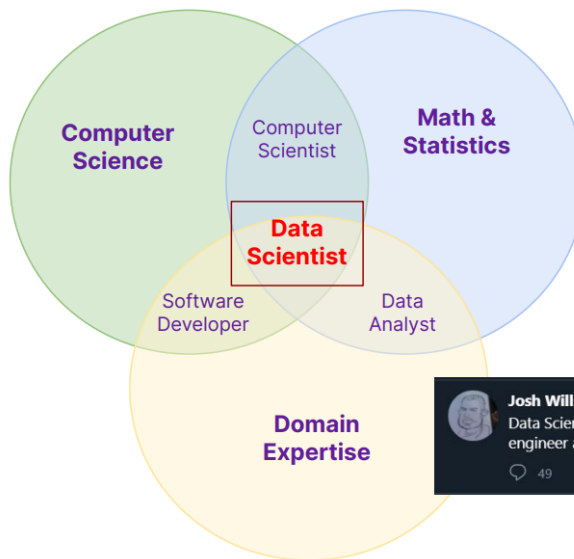
- Toleransi keterlambatan 15 menit.
- Rapikan kembali peralatan lab setelah selesai praktikum ke keadaan semula!
- Jangan menyampah, kutip sampah jika ditemukan!

03

Pengantar Machine Learning

Pengantar Machine Learning

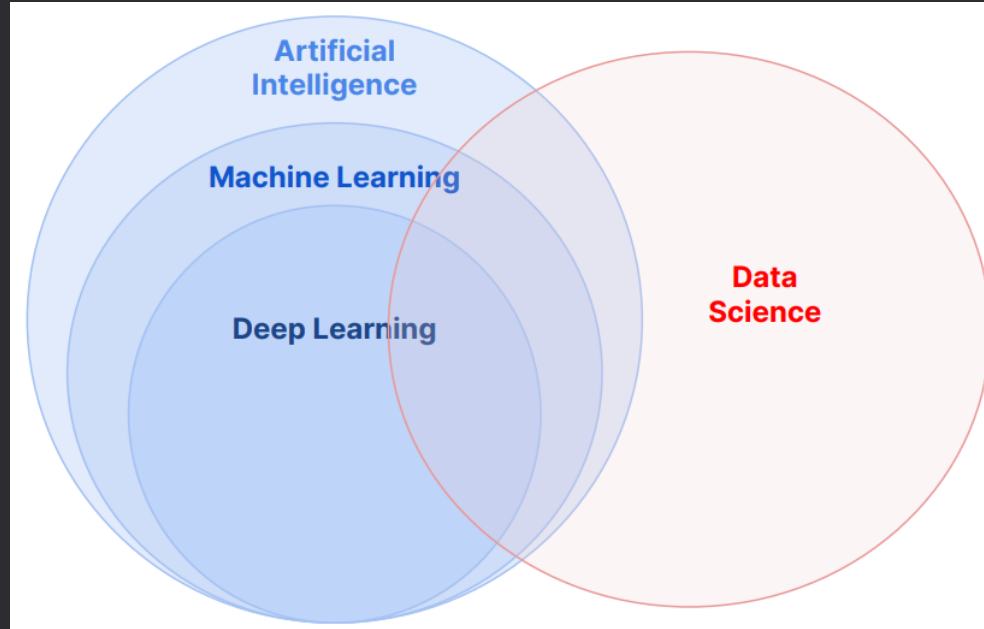
What is Data Science?



Data Science is an art of data: from extracting, cleaning, analyzing, and turning data into insights, predictions, and decisions



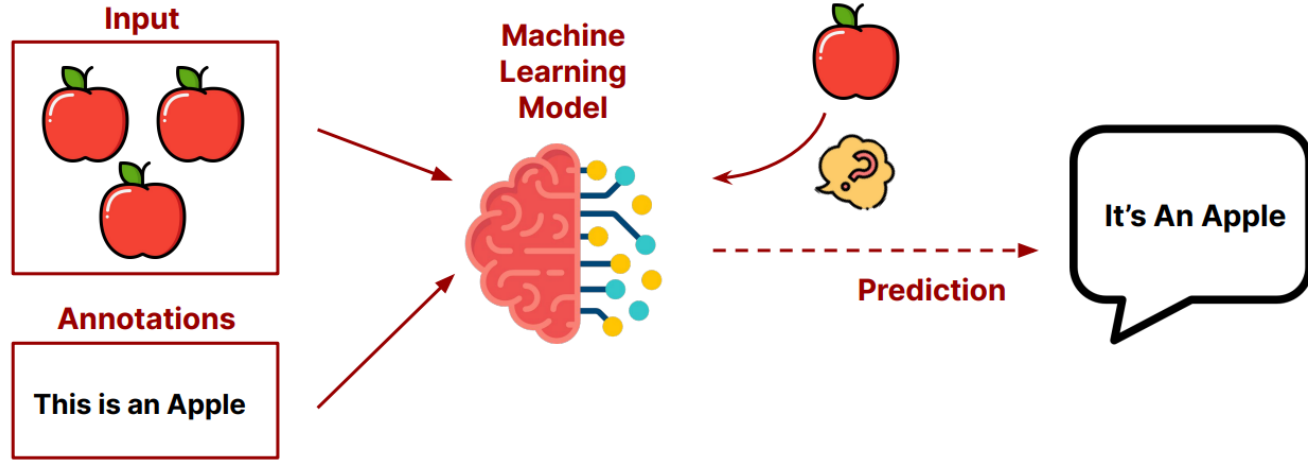
Pengantar Machine Learning



Pengantar Machine Learning

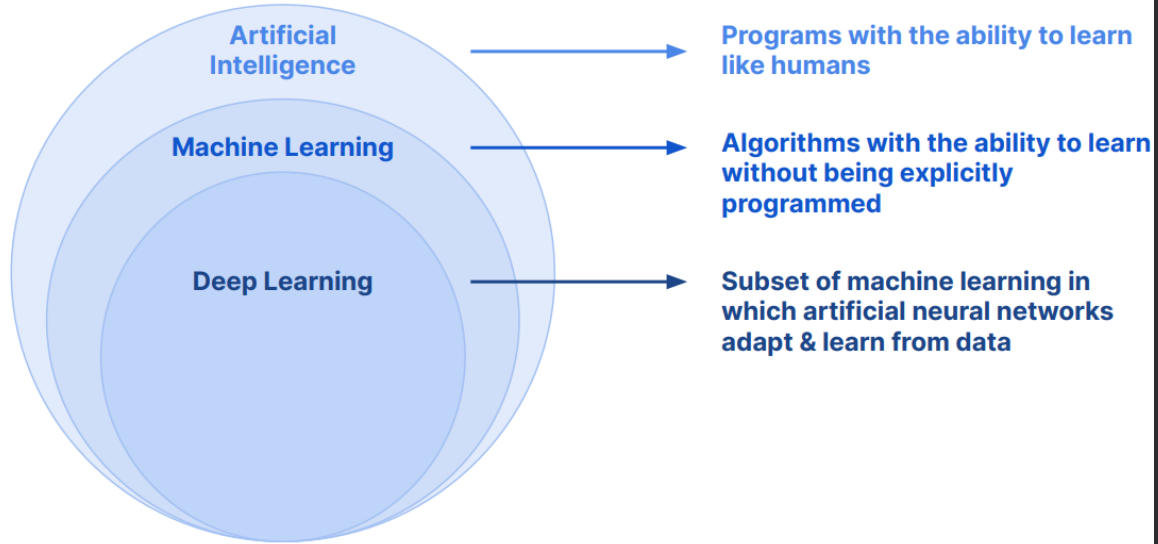
What is Machine Learning?

Simply, machine learning finds patterns in data and uses them to make predictions.



Pengantar Machine Learning

AI vs Machine Learning vs Deep Learning



04

Instalasi Anaconda

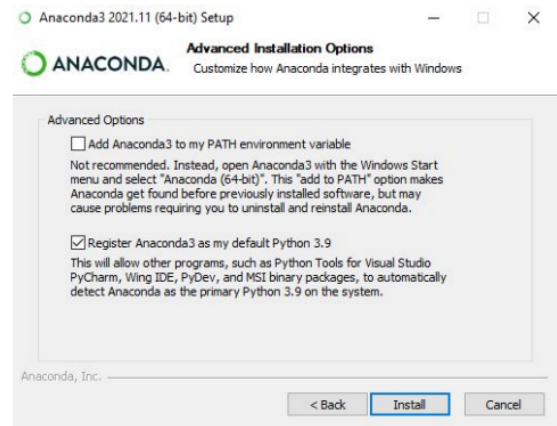
Instalasi Anaconda

- Anaconda adalah distributor bahasa pemrograman Python dan R untuk komputasi ilmiah seperti *data science*, *machine learning*, pemrosesan data dengan skala besar, analisis deskriptif, dan lain sebagainya yang bertujuan untuk menyederhanakan manajemen dan penerapan paket.



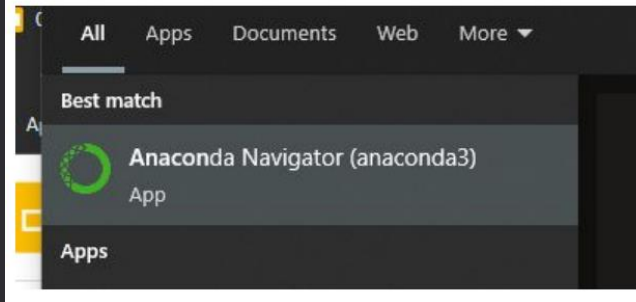
Instalasi Anaconda

1. Go to
<https://www.anaconda.com/products/individual>
2. Launch the Installer
3. Click next for all the steps
4. Don't change anything (just leave the default settings) especially on the window to the right
5. Done!
6. For macOS users, please refer to
<https://docs.anaconda.com/anaconda/install/macos/>



Instalasi Anaconda

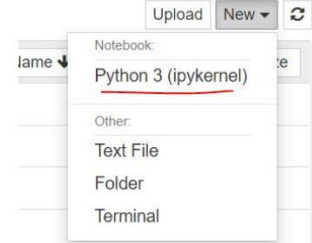
1. Open Anaconda Navigator.



2. Click Jupyter Notebook Launch

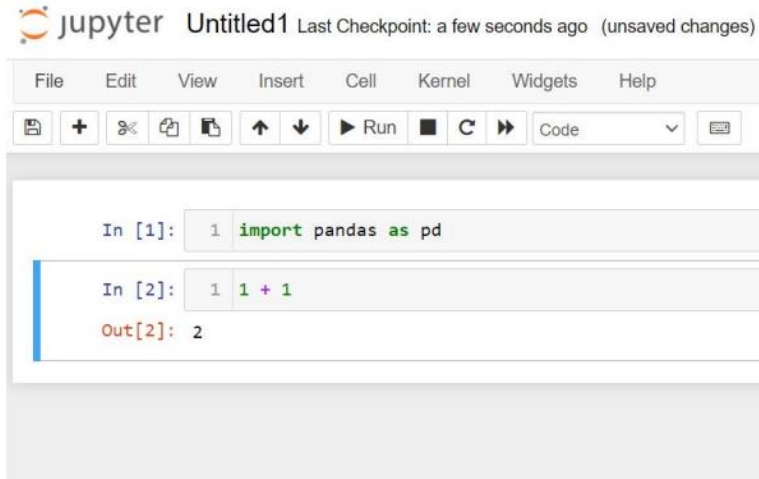


We will make sure jupyter notebook has been installed and it can run correctly by creating a new notebook. Go to a folder of your choosing, and select this:



Instalasi Anaconda

Try to type something like this. If this returns no Error, then jupyter notebook works well in your machine.



jupyter Untitled1 Last Checkpoint: a few seconds ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help

Run

```
In [1]: 1 import pandas as pd
```

```
In [2]: 1 1 + 1
```

```
Out[2]: 2
```

Instalasi Anaconda

Common Python packages for Data Scientists:

- Pandas (dataframe / tabular data processing)
- Numpy (mathematical array operations)
- Matplotlib and Seaborn (visualization)
- Scikit-Learn (machine learning)

Installing anaconda in your machine should already install these packages.

Instalasi Anaconda

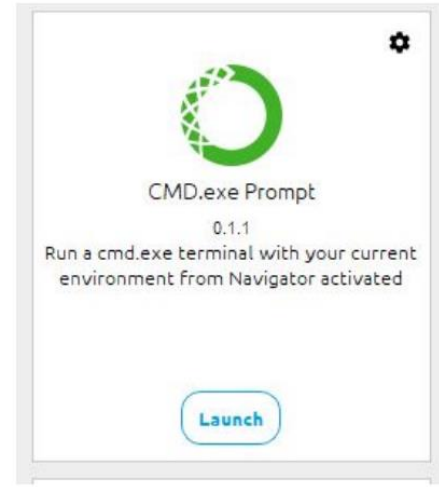
Let's try to import a package that has not been installed in our local machine. Let's try to do this. It should return an error. Because we haven't installed the package.

```
1 import lightgbm
```

```
-----  
ModuleNotFoundError                                Traceback (most recent call last)  
~\AppData\Local\Temp\ipykernel_7784\1544401774.py in <module>  
----> 1 import lightgbm  
  
ModuleNotFoundError: No module named 'lightgbm'
```

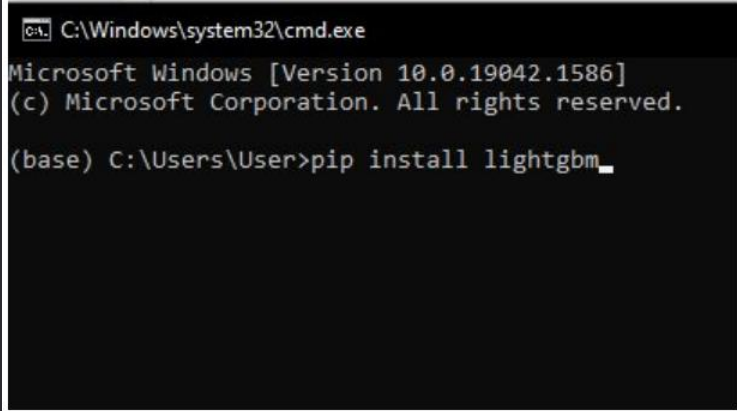
Instalasi Anaconda

To install new packages, we need to go to Anaconda Prompt



Instalasi Anaconda

Always write 'pip install *packagename*' to install a new package. Then, press enter.



```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.19042.1586]
(c) Microsoft Corporation. All rights reserved.

(base) C:\Users\User>pip install lightgbm_
```

Instalasi Anaconda

Installing Python with anaconda should bring almost all the required package in fundamentals of Data Science.

So first, when you see a new package, try to import it first to see if anaconda has already got it for you.

If not, then you can install it like what we have just done.

05

Basic Python

Hands On P1

Thanks!

Do you have any questions?

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Posted by u/JourneymanHunt 4 days ago 🍷 2 🐱

Just a guy taking a picture of my cat sitting outside. [Cat Picture](#)

