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Computer Vision Session 1

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Overview of Content

1. What is Computer Vision click
2. VS Code Python Extention
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5. Recap on Python basics

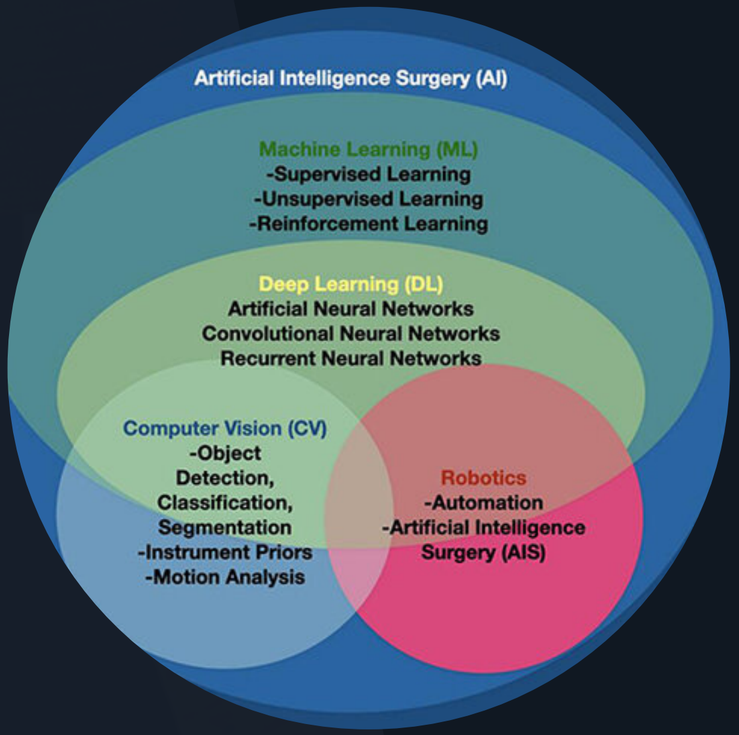
What is Computer Vision

Computer Vision:

- Is a field of artificial intelligence (AI) that uses machine learning and neural networks to teach computers and systems to derive meaningful information from digital images, videos and other visual inputs, and to make recommendations or take actions when they see defects or issues.

- AI enables computers to think, cv enables them to see, observe and understand.

- It seeks to perform and automate tasks that replicate human capabilities. In this case, computer vision seeks to replicate both the way humans see, and the way humans make sense of what they see.



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Environment Set up

Python Installation

- First of it we have to install python 3.9 on our local device
- **Windows installer (64-bit)**

click

IDE’s Installation

- Visual studio Code
- PyCharm
- Jupyter Notebook

Libraries installation

- Open-Cv
- NumPy
- Matplotlib

Creating new python Files

- Now we can start coding

Environment Set up

Visual Studio Code Installation

- Click the link and download it:

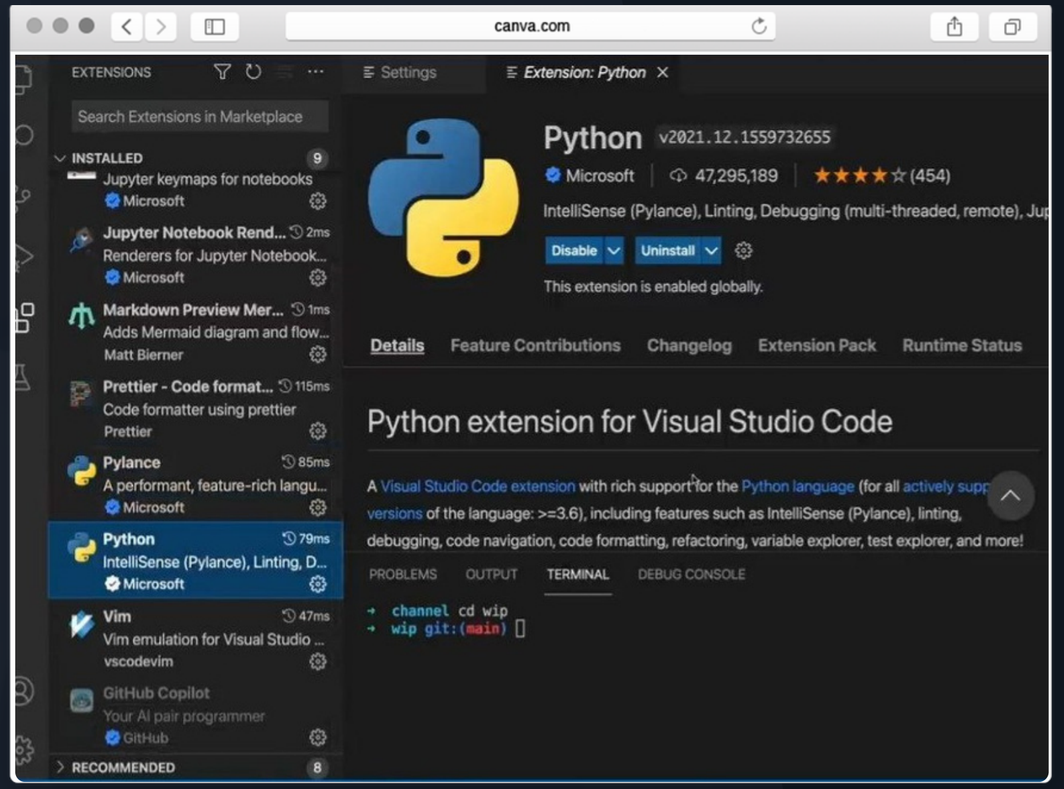
DOWNLOAD

VS Code Python Extentions

- Python
- Pylance
- Jupyter
- Juputer Keymap

VS Code & Python Set up

click



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Environment Set up

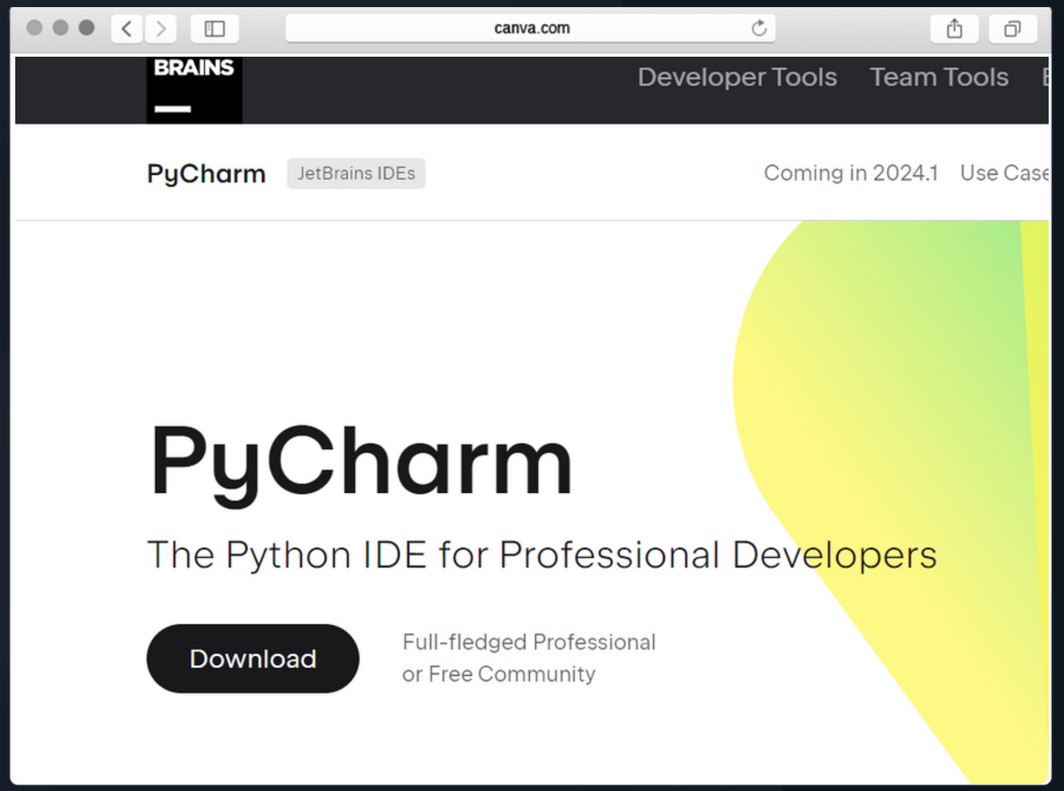
Applying for professional version of PyCharm

PyCharm Downloading

Download this Libraries in your current interpreter:

- Open-Cv
- NumPy
- Matpotlib

Youtube video for applying and download the professional Version



Environment Set up

Click for downloading Anaconda

- **DOWNLOAD**
- Anaconda is an open-source distribution of the Python and R programming languages for data science that aims to simplify package management and deployment.

Start downloading jupyter from therir

Thank you

presented by Marwa Abdelmonem

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