

COMP9517 Tutorial 1

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Agenda

- Setting up jupyter notebook
- Working with python environment
- Libraries we use
- OpenCV demo
- Q/A

Setting up jupyter notebook

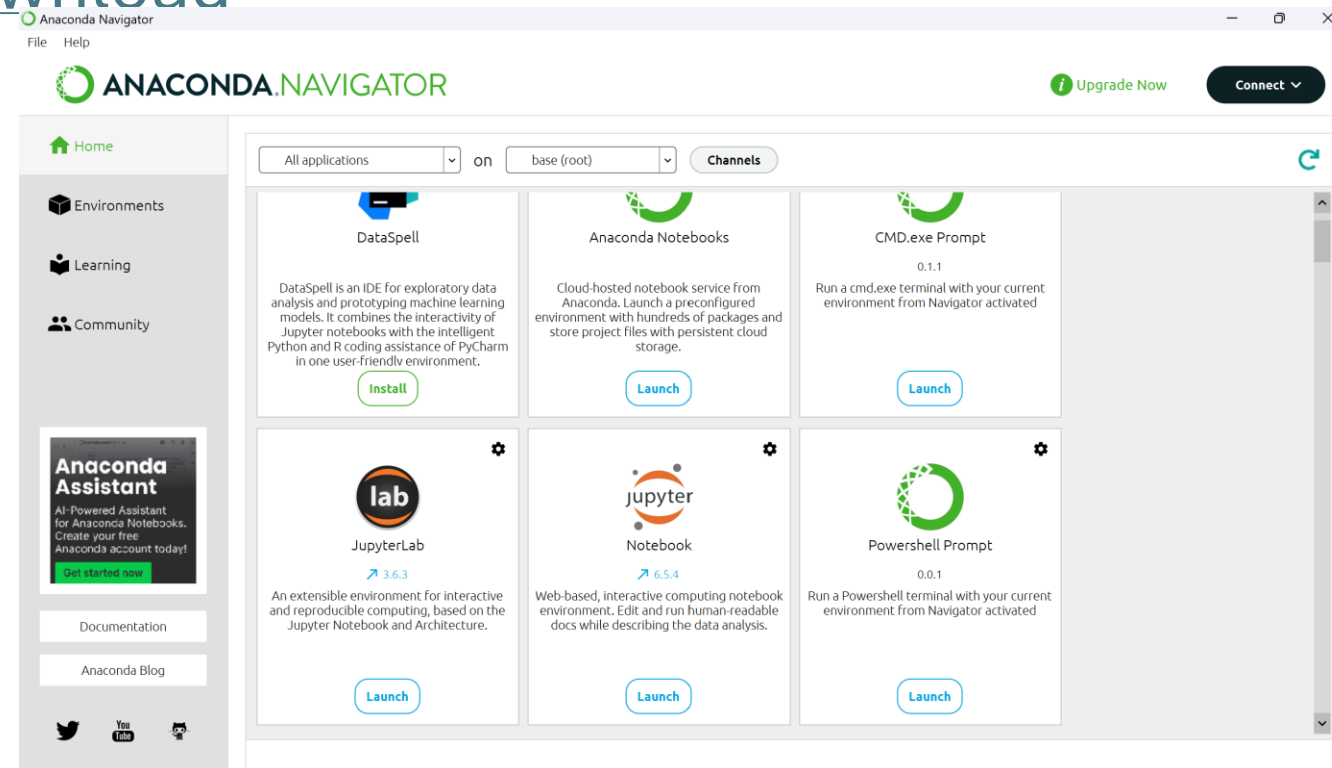
- 1. install anaconda

<https://www.anaconda.com/download>

- 2. Open anaconda navigator

- 3. Install jupyter notebook

- 4. Create new jupyter notebook



Working with python environment

- Why do we use python? A lot of libraries, tools for CV / ML / DL etc
- What version do we use? 3.11
- What is a python environment?

an isolated space where you can work on your Python projects

- How to start and stop an environment?

Can manage environments in conda

Libraries we use

- OpenCV - a library that provides tools for computer vision tasks
- Matplotlib - a library for plotting graphs, visualizations
- Numpy - a library used for working with arrays

- How to install libraries?

`pip install <package>`

`pip install opencv-python`

`pip install numpy=2.2.2`

OpenCV demo

