# Setting up the Environment

CSIT375 AI for Cybersecurity, SCIT UoW

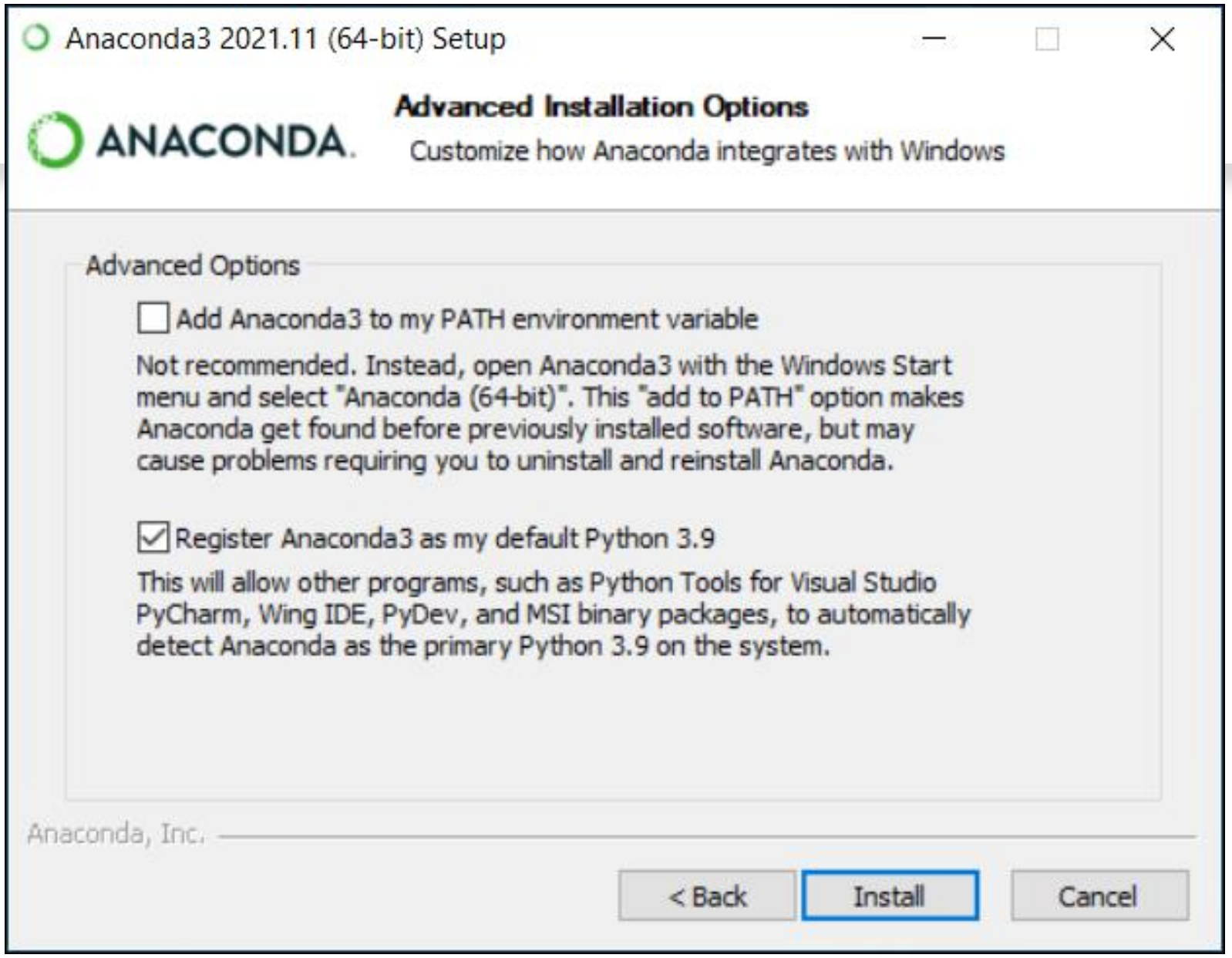
# Outline

- **Install Python using Anaconda – Windows/Mac**
  - We recommend installing the Anaconda Distribution, which includes Python, Jupyter Notebook (a lightweight IDE), and all the major libraries
- **Verify Anaconda installation**
- **Launch a Jupyter notebook**
- **Open a new Notebook**

- *Note: If you already have anaconda and jupyter installed, please open a new jupyter notebook, then follow the lab instructions in 'Lab 1 - Python basics.pdf'*

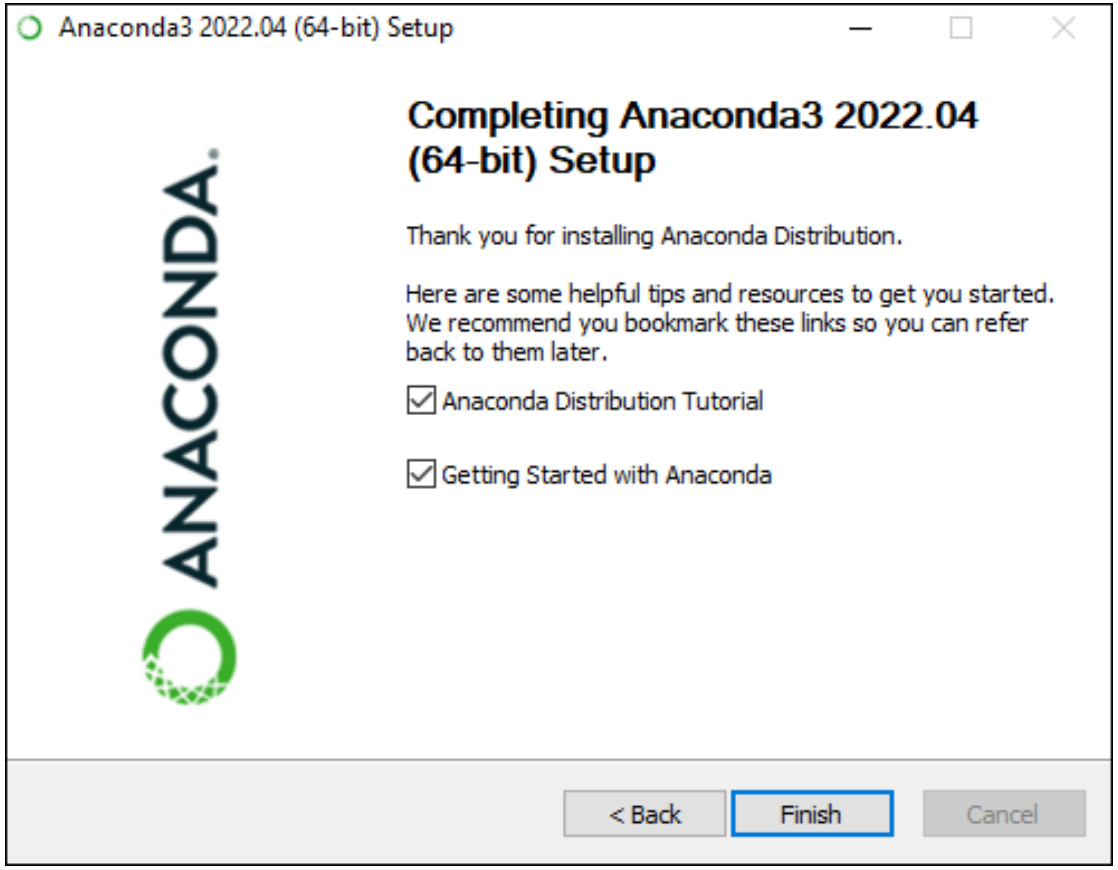
# Installing Anaconda - Windows

- Open https://www.anaconda.com/products/distribution
- Download the Anaconda installer for Windows
- Double-click the executable and install
- Follow the Anaconda Python 3 installation instructions
  - It is recommended that you install for '**Just Me'**
  - Make sure that **'Register Anaconda as my default Python 3.9'** option is checked (screenshot on next slide)


Anaconda3 2021.11 (64-bit) Setup
ANACONDA.
Advanced Installation Options
Customize how Anaconda integrates with Windows
Advanced Options
Add Anaconda3 to my PATH environment variable
Not recommended. Instead, open Anaconda3 with the Windows Start menu and select "Anaconda (64-bit)". This "add to PATH" option makes Anaconda get found before previously installed software, but may cause problems requiring you to uninstall and reinstall Anaconda.
Register Anaconda3 as my default Python 3.9
This will allow other programs, such as Python Tools for Visual Studio PyCharm, Wing IDE, PyDev, and MSI binary packages, to automatically detect Anaconda as the primary Python 3.9 on the system.
Anaconda, Inc.
< Back
Install
Cancel

# Installing Anaconda - Windows

- After a successful installation you will see the “Thanks for installing Anaconda” dialog box:

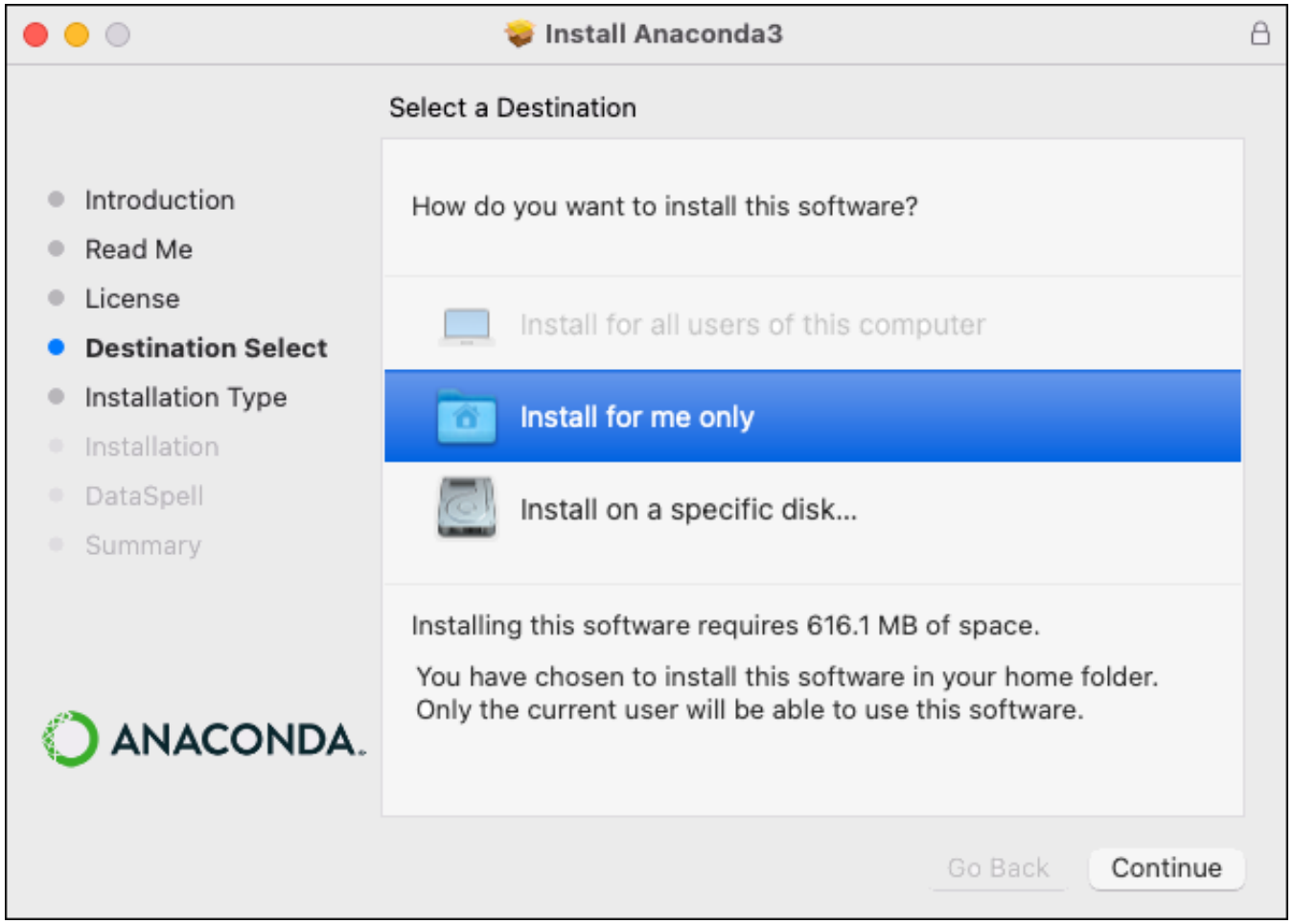


# Installing Anaconda - Mac

- Open: https://www.anaconda.com/products/distribution#macos
- Download the Anaconda installer for Mac
  - Below instructions assume that you use the graphical installer .pkg file
- Double-click the downloaded file and click Continue to start the installation
- Follow the Anaconda installation instructions

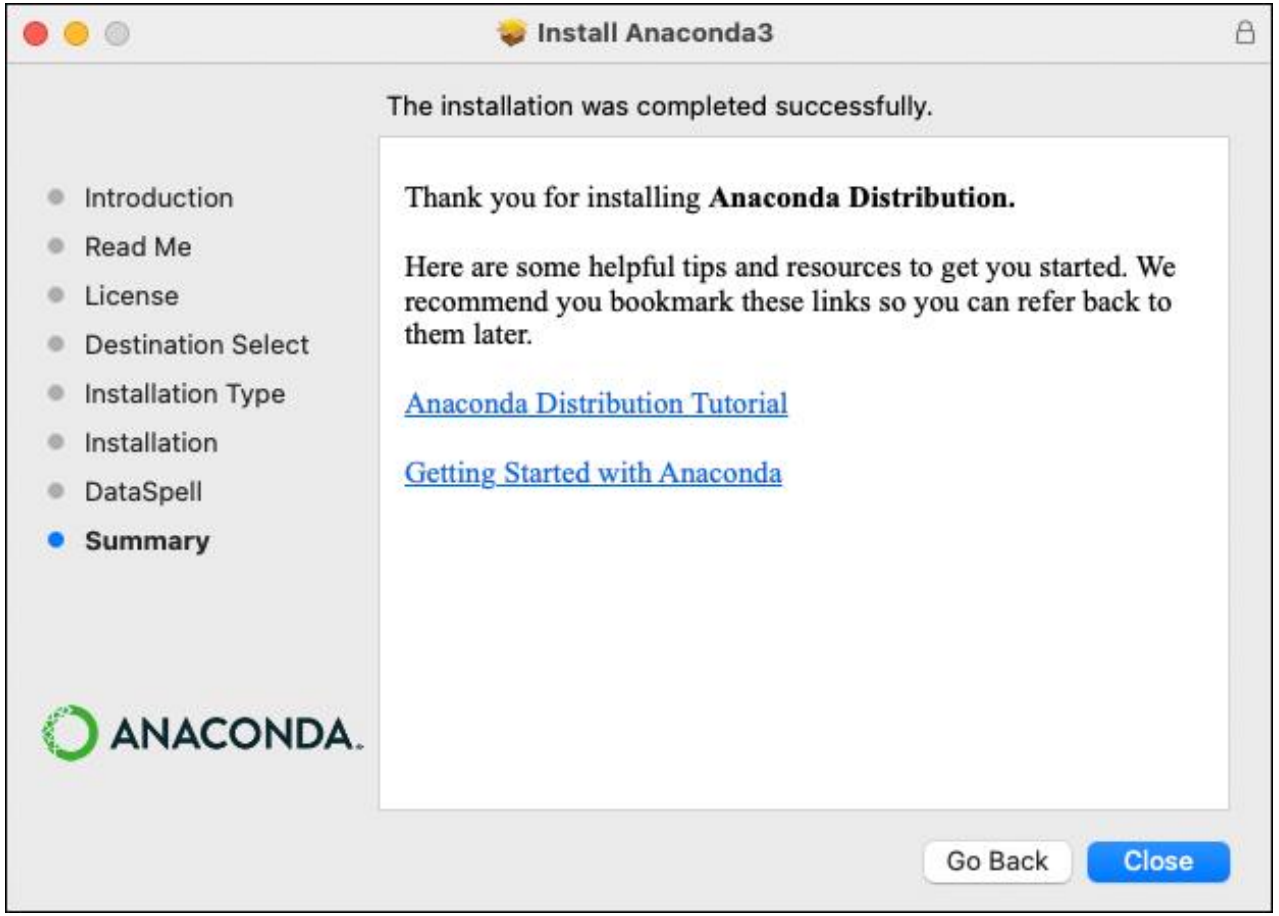
# Installing Anaconda - Mac

- If you see this page, **‘Install for me only’** is the recommended selection.
- Click Continue to return to Installation Type



# Installing Anaconda - Mac

- A successful installation displays the following screen:



# Verify your installation

- **Anaconda Navigator**
  - Anaconda Navigator is a graphical user interface (GUI) that is automatically installed with Anaconda
  - Navigator will open if the installation was successful

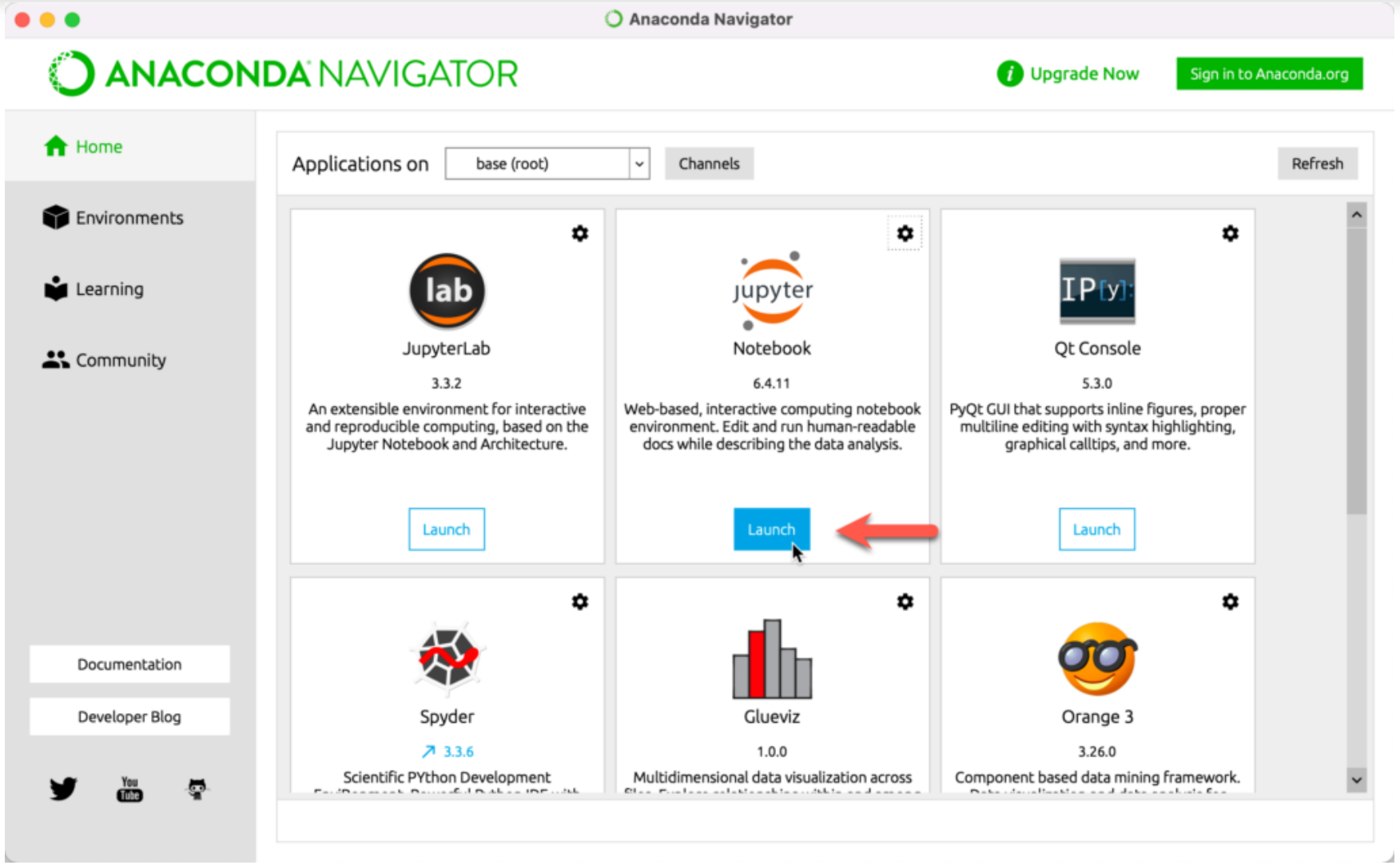
- **How to open Anaconda Navigator**
  - **Windows**: Click Start, search for Anaconda Navigator, and click to open.
  - **macOS**: Click Launchpad and select Anaconda Navigator

# Launch Jupyter notebook

- **Jupyter Notebook**
  - IDE (Integrated development environment) for data analytics
  - already came installed with Anaconda

- **How to launch Jupyter Notebook**
  - open ‘Anaconda Navigator’ application, then launch the notebook from there (see screenshot on next slide)

# Launch Jupyter notebook

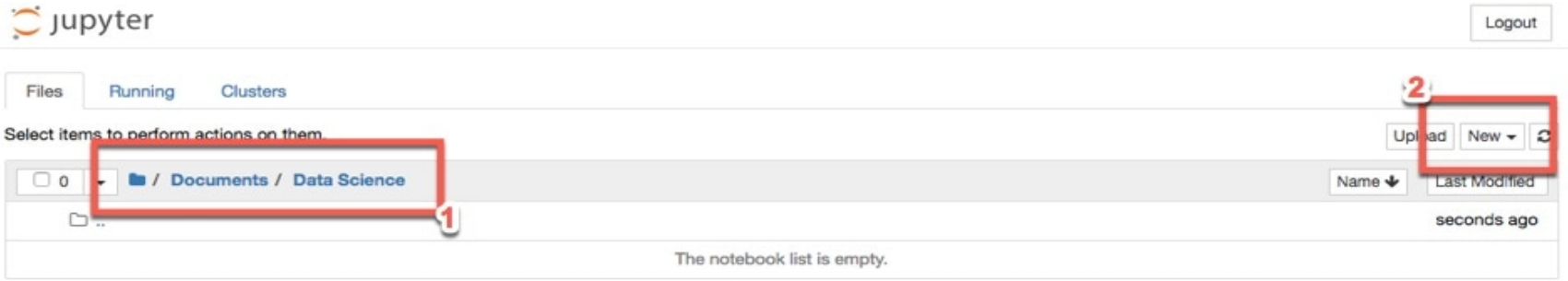


# Launch Jupyter notebook

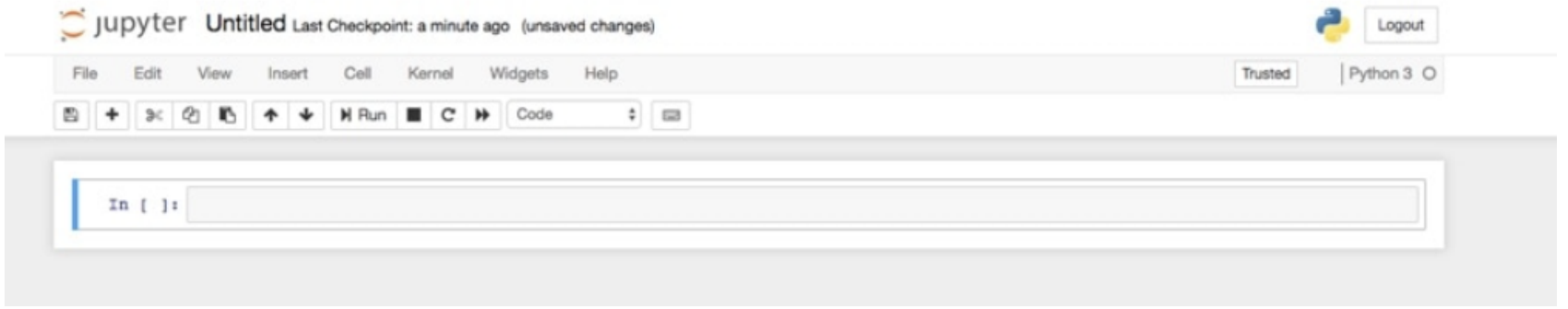
- You will see this dashboard open in your browser

# Open a new Notebook

- Navigate to the folder you'd like to save the notebook in




- Open a new notebook by clicking "New" in the top right, then click 'Python 3 (ipykernel)'. It will open in your default web browser. You will see a blank canvas:



# Next step …

- Now open the file ‘Lab task 1 - Python basics’, which contains the exercise that you need to do in Lab 1

# References


- https://docs.anaconda.com/anaconda/install/windows/
- https://docs.anaconda.com/anaconda/install/mac-os/
- https://docs.anaconda.com/anaconda/install/verify-install/