

# AI 500 Artificial Intelligence Overview

## HOS01A-3 – Set Up Jupyter Notebook

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### Before You Start

- The directory path shown in the screenshots may be different from yours.
- Some steps are not explained in the tutorial. If you are not sure what to do:
  1. Consult the resources listed below.
  2. If you cannot solve the problem after a few tries, consult the TA

### Learning Outcomes

- Installing Jupyter Extension
- Run a simple program in a Jupyter Notebook

### Resource:

- Jupyter Notebook: An Introduction <https://realpython.com/jupyter-notebook-introduction/>
- The Jupyter Notebook: <https://jupyter-notebook.readthedocs.io/en/stable/>

**Jupyter Notebooks** (formerly IPython Notebooks) are an interactive computing environment that enables users to author files that include Python code, Plots, Narrative Text, Equations, Images, and Videos.

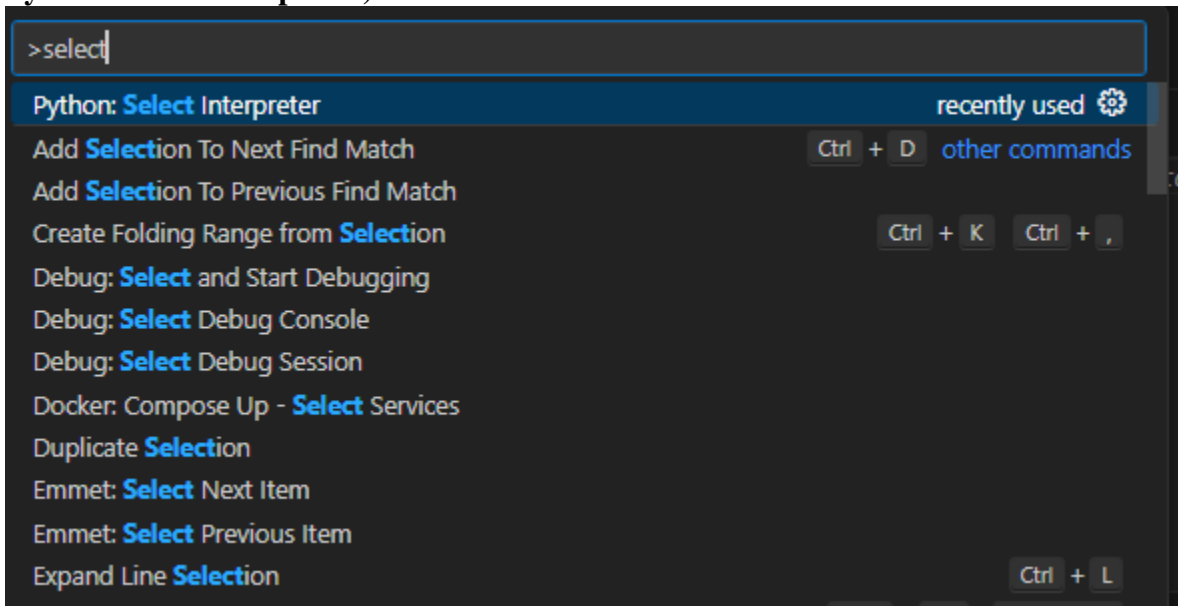
Visual Studio Code (VS Code) supports Jupyter Notebooks.

## Environment Set Up

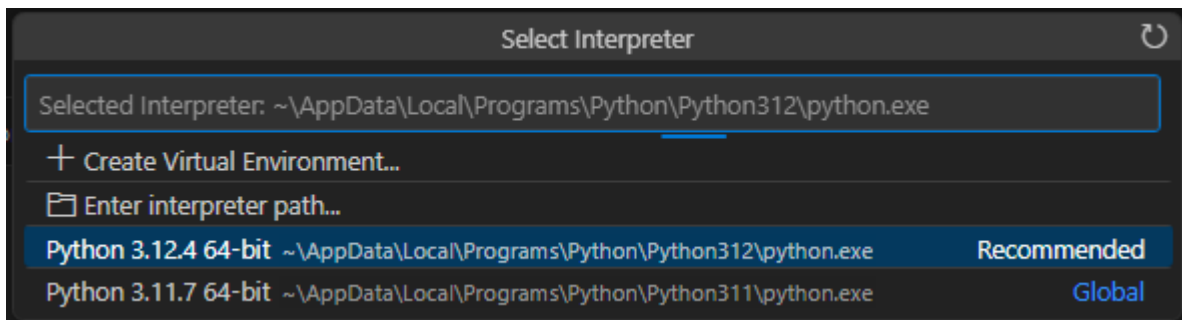
### VS Code Extension

- 1) In Visual Studio Code, open the private repository generated when you accept the HOS assignment. You might not have cloned the repo if you cannot find the repository on your machine. In this case, ensure to clone the repository before proceeding.

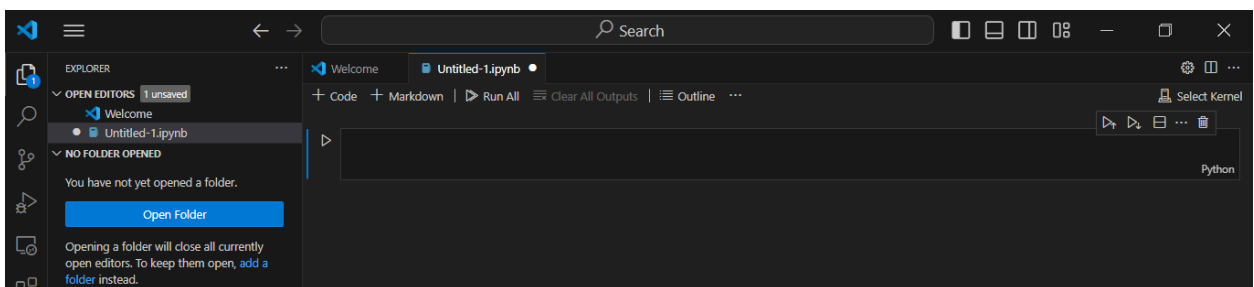
- 2) To select an environment, open **Command Palette** from view or press **Ctrl + Shift + P**, to bring up a command palette, then type “select” to narrow down the list and then select **Python: Select Interpreter**)



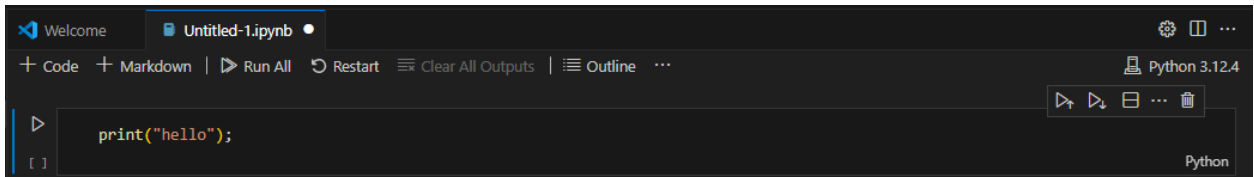
- 3) Choose Python 3.12.4 or 3.11.7 version (whichever Python version you downloaded in the previous instructions)



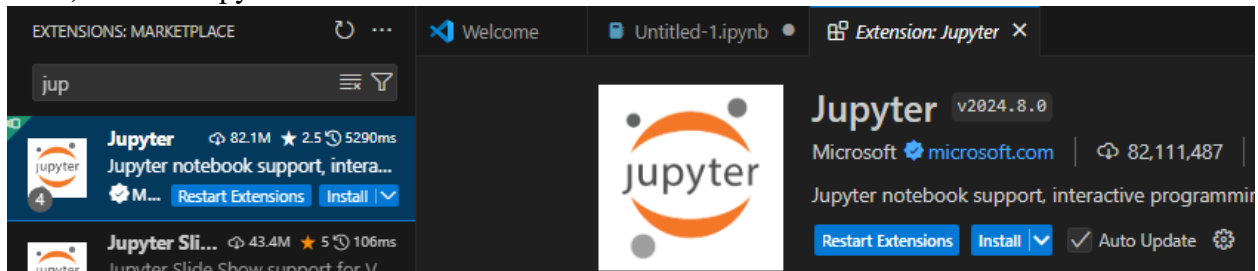
- 4) Press **Ctrl+Shift+P** to select a command palette again, then type “create” to bring up **Python: Create New Jupyter Notebook** and select it from the dropdown. You will see a screen like the image below.



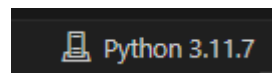
- 5) Type `print(“hello”)` into the Jupyter like the following



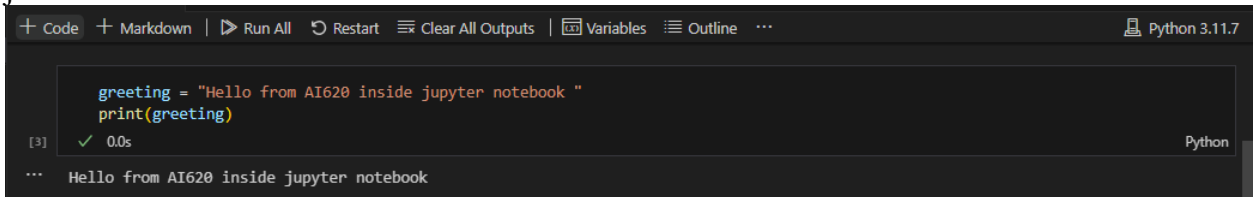
6) Install Jupyter notebook for VS Code extension.



7) Type `print('hello')` again to see if Jupyter was installed correctly. You should see that Jupyter Server has been connected like the screenshot below.



8) Type the following in the code cell and hit the run button. It should print out the message just below the code cells.



9) Save the file with the name “hello\_jupyter.ipynb” under a new folder name “Module 01” (for example: **AI620/Module 01**).

*You will notice that the file you saved will have an extension \*.ipynb*