

Run notebook from Day1

Local Environment

# Step1 – clone the repo on local machine

- Install git client
  - Follow instructions at <https://www.atlassian.com/git/tutorials/install-git>
- Clone repo on a local machine
  - Go to command prompt
  - Run command “git clone [https://github.com/nsanghi/AI\\_sessions\\_UKN.git](https://github.com/nsanghi/AI_sessions_UKN.git)”
- Change to repo directory
  - Run command “cd AI\_sessions\_UKN”

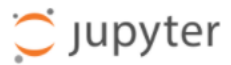
# Step2 – run the notebook

- Start Jupyter notebook
  - Run command “jupyter notebook”
  - It will start jupyter python kernel and open a browser window



## Step3 – run the notebook

- Drill into Day1 content by clicking on “Day1” link



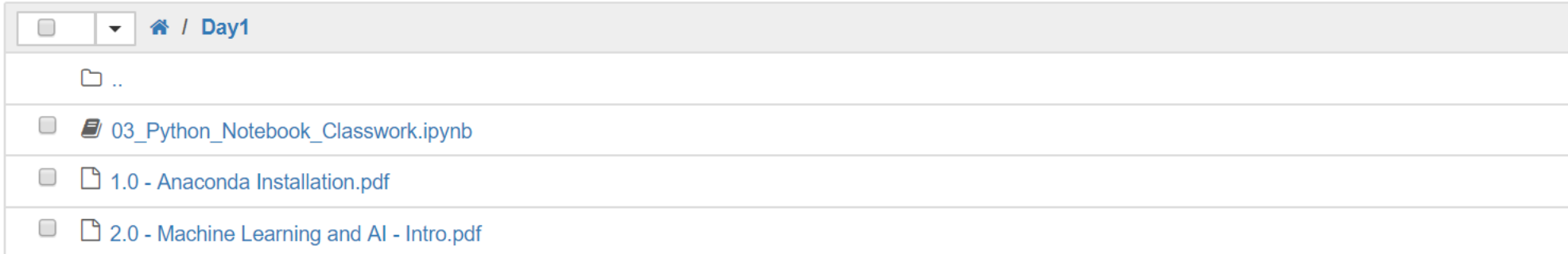
## Files

## Running

## Clusters

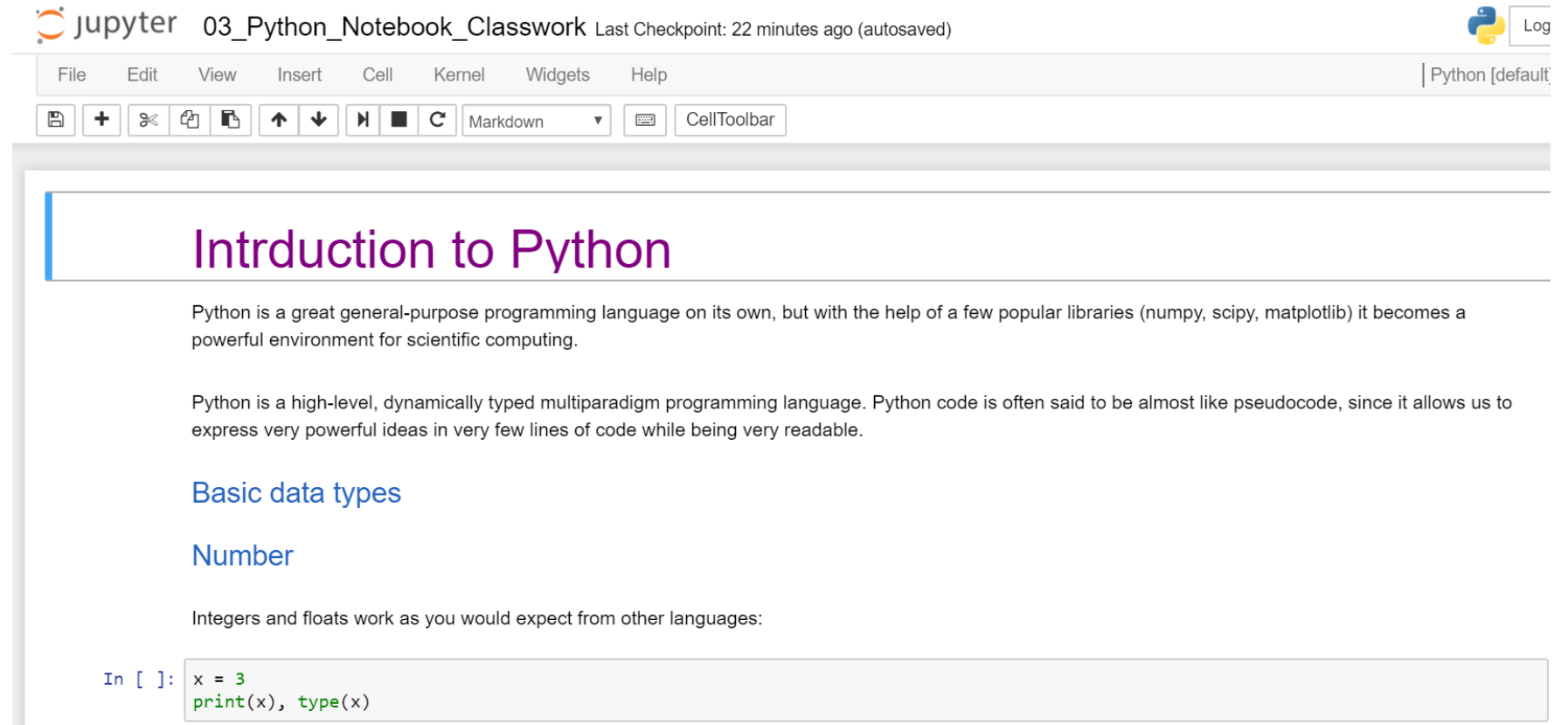
## Conda

Select items to perform actions on them.



# Step4 – run the notebook

- Start the notebook “[03 Python Notebook Classwork.ipynb](#)” by clicking the link



The screenshot displays the Jupyter Notebook interface for a file named '03\_Python\_Notebook\_Classwork'. The top bar shows the Jupyter logo, the file name, and a status message: 'Last Checkpoint: 22 minutes ago (autosaved)'. On the right, there is a 'Log' button. Below the top bar is a menu bar with options: File, Edit, View, Insert, Cell, Kernel, Widgets, and Help. A toolbar contains icons for saving, creating a new file, opening a recent file, deleting a file, undo, redo, and a dropdown menu currently set to 'Markdown'. To the right of the toolbar is a 'CellToolbar' button. The main content area features a title 'Introduction to Python' in purple. Below the title, there are two paragraphs of text. The first paragraph states: 'Python is a great general-purpose programming language on its own, but with the help of a few popular libraries (numpy, scipy, matplotlib) it becomes a powerful environment for scientific computing.' The second paragraph states: 'Python is a high-level, dynamically typed multiparadigm programming language. Python code is often said to be almost like pseudocode, since it allows us to express very powerful ideas in very few lines of code while being very readable.' Below the text, there are two sub-sections: 'Basic data types' and 'Number', both in blue. Under 'Number', it says 'Integers and floats work as you would expect from other languages:'. At the bottom, there is a code input area with the prompt 'In [ ]:' followed by the code: 

```
x = 3
print(x), type(x)
```

jupyter 03\_Python\_Notebook\_Classwork Last Checkpoint: 22 minutes ago (autosaved) Log

File Edit View Insert Cell Kernel Widgets Help | Python [default]

Save New Open Recent Undo Redo Markdown CellToolbar

## Introduction to Python

Python is a great general-purpose programming language on its own, but with the help of a few popular libraries (numpy, scipy, matplotlib) it becomes a powerful environment for scientific computing.

Python is a high-level, dynamically typed multiparadigm programming language. Python code is often said to be almost like pseudocode, since it allows us to express very powerful ideas in very few lines of code while being very readable.

### Basic data types

### Number

Integers and floats work as you would expect from other languages:

```
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# Step5 – explore python syntax

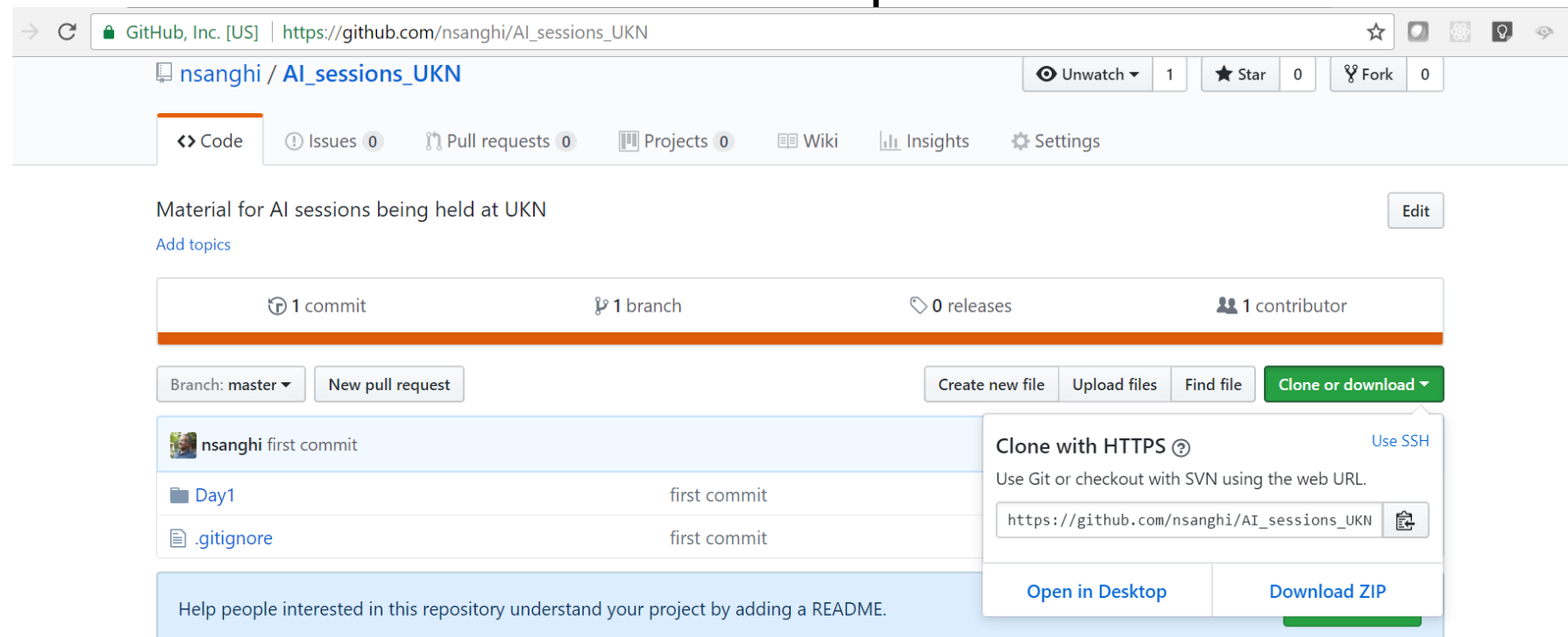
- Run code cells by clicking on the specific cell and pressing “Ctrl-enter” or “shift-enter”
- You can click on “help->keyboard shortcuts” to get help with keyboard commands for notebooks
- You can find more information at <https://jupyter.org/>

With no local install



# Step1 – Download material from github as zip

- Goto URL [https://github.com/nsanghi/AI\\_sessions\\_UKN](https://github.com/nsanghi/AI_sessions_UKN)
- Download as zip. Click on the green button on top right “Clone or Download”. Click on “Download as ZIP”. And unzip



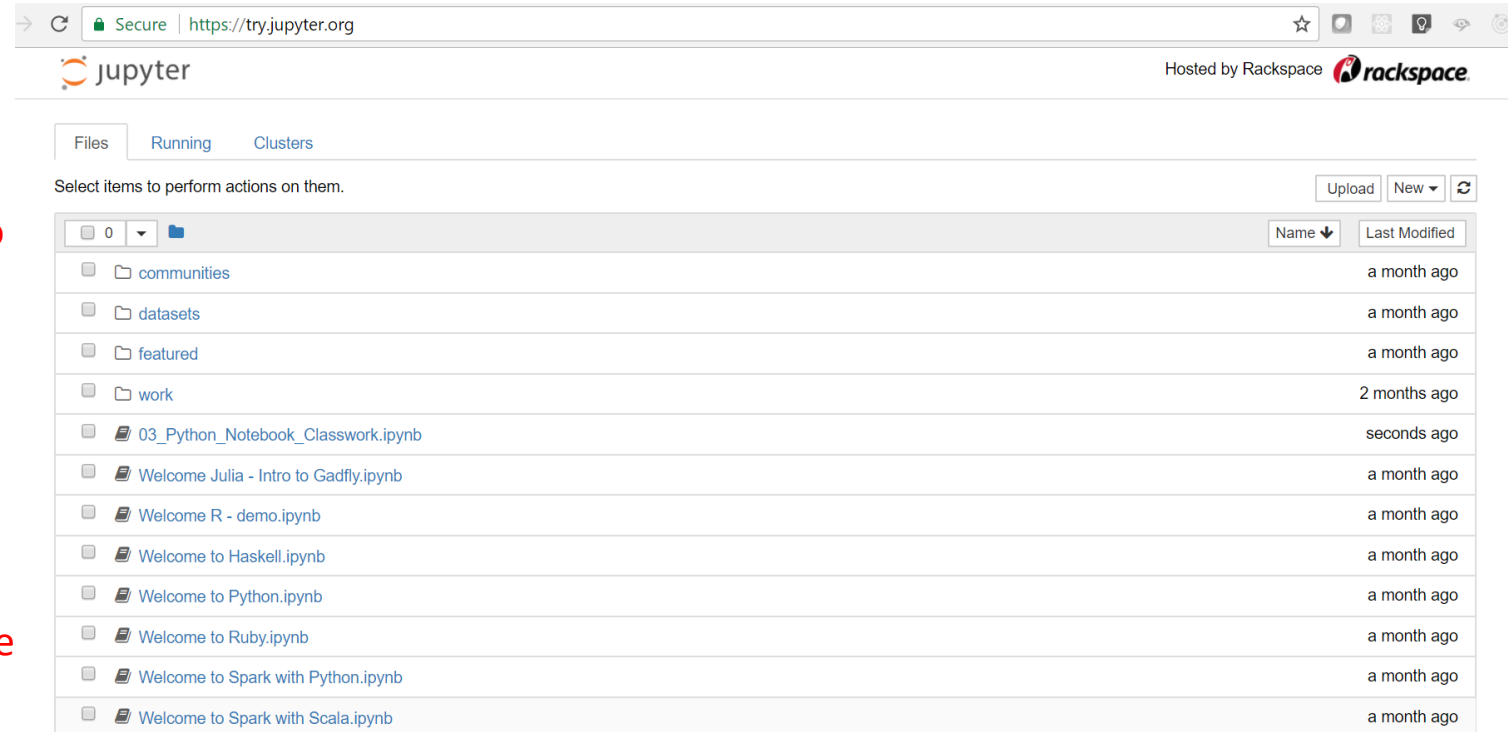
# Step2 – start cloud notebook instance

- Goto URL <https://try.jupyter.org/>
- Click on “upload” button on top right
- Navigate to “Day1” folder of material downloaded in step 1 and upload file “03\_Python\_Notebook\_Classwork.ipynb”

This is a temporary server created on fly for you to play around. The server gets killed if you there is no activity for 10 mins or if you refresh the browser window

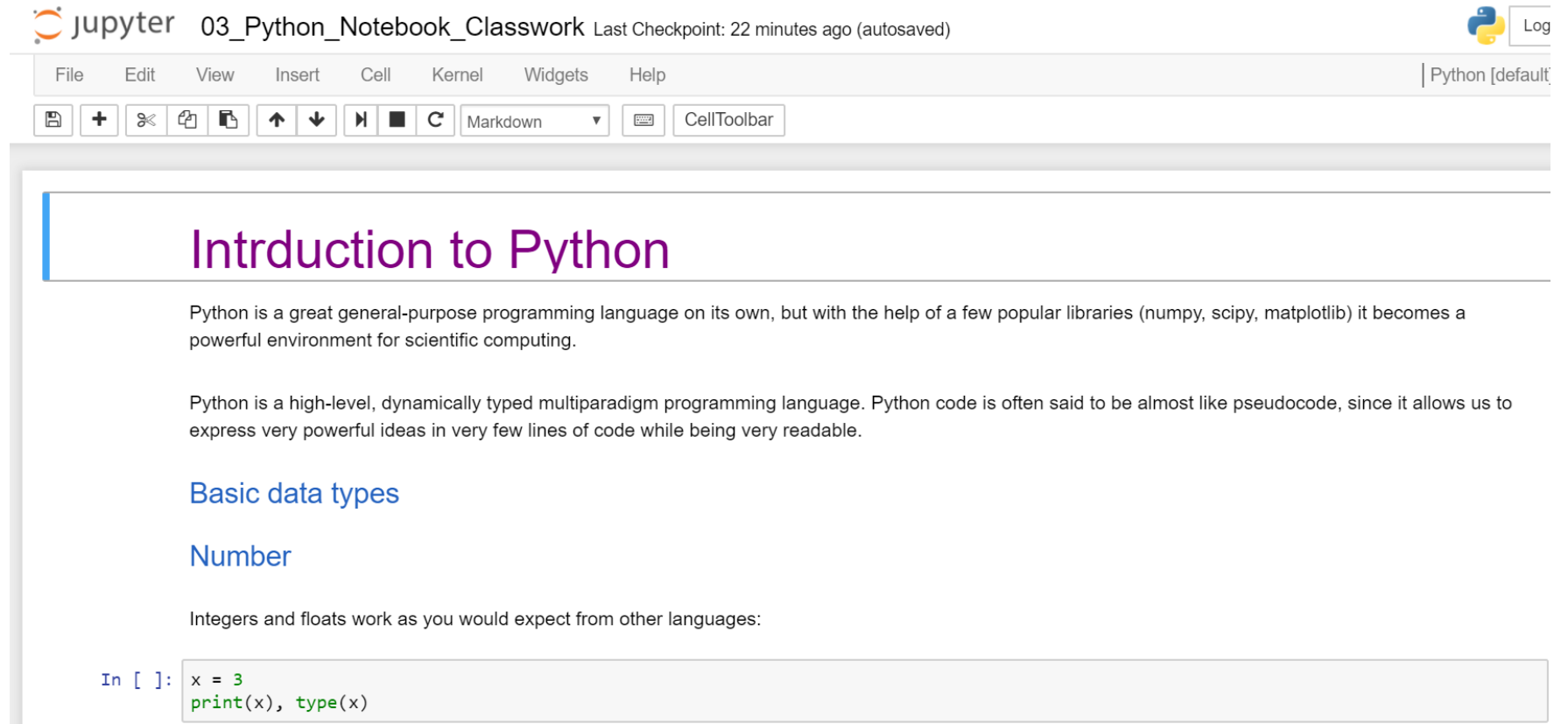
Will try to find better way to host and launch your own notebooks without installs.

However to get the maximum out of the sessions, I would advise a local install which should be possible without admin privileges.



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