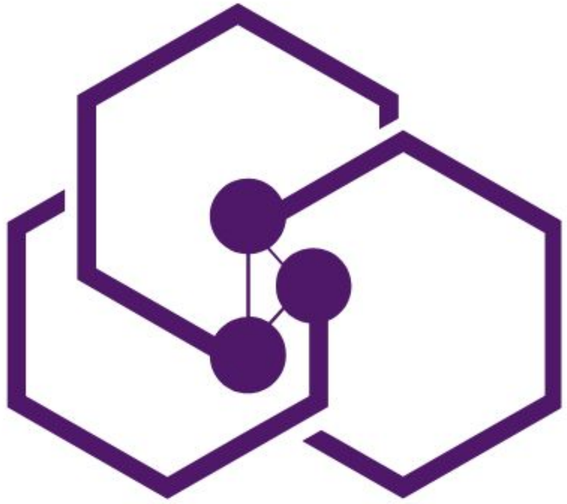

NexusHive

KEEP LEARNING, KEEP BUZZING

NexusHive

KEEP LEARNING, KEEP BUZZING

python™

Essential Data Concepts in Python

Course Name: Python Basics for Data Enthusiasts; Installing and Setting Up Jupyter Notebook

www.nexushive.ai

What Are Python Packages & pip?

- Python Packages: Pre-built code libraries
  - Example: numpy, pandas, jupyter
- pip: Python’s default package manager
  - Used to install, upgrade, remove packages
- Comes pre-installed with Python 3.4+

Installing Jupyter Using pip

- Open Terminal (macOS) / PowerShell (Windows)
- Command: pip install jupyter
- Ensure Python is already installed
- Wait for confirmation: “Successfully installed jupyter”

Launching Jupyter Notebook

- Run command: jupyter notebook
- Opens in your default browser
- If it doesn’t, copy the link from terminal and paste in browser
- Jupyter server runs in the background

Exploring the Jupyter Interface

- Notebook name – Click to rename
- Menu bar – File, Edit, View, etc.
- Toolbar – Quick access buttons (save, run, insert cell)
- Main area – Editable cells

Running Code in Cells

- Code is written in cells
- Execute: Shift + Enter
- Output appears below
- Add cells: | Remove:
- Execution order shown (In [1], In [2]...)

Using Markdown in Cells

- Convert cell: Code → Markdown
- Use # for headers, **bold**, *italic*, etc.
- Ideal for writing notes, explanations, headings
- Blends code and documentation beautifully

Saving and Using Checkpoints

- Click to save, or go to File > Save and Checkpoint
- Checkpoints are save points you can revert to
- Use File > Revert to Checkpoint to restore older versions

Important Tip – Keep Terminal Open

- Terminal runs the Jupyter server
- Closing it ends your Jupyter session
- Solution: minimize, don’t close

Recap & What’s Next

- ✔ Installed Jupyter using pip
- ✔ Launched and explored the interface
- ✔ Ran Python code and added markdown
- ✔ Learned about checkpoints and usage tips

Up next: Writing your first Python script!