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Artificial Intelligence / Machine Learning Bootcamp

Jupyter Notebook : you must know

AGENDA

Starting a Jupyter Notebook

Command	Description
`jupyter notebook`	Launch the Jupyter Notebook server
`Ctrl + C` (in terminal)	Stop the server
`!<command>`	Run shell command in a notebook cell (e.g., `!ls`, `!pip install`)

Cell Types

Type	Shortcut	Description
Code	`Esc + Y`	For Python code
Markdown	`Esc + M`	For text, headings, bullet points
Raw NBConvert	`Esc + R`	For raw text, not rendered

Keyboard Shortcuts

Shortcut	Action
`A`	Insert cell **Above**
`B`	Insert cell **Below**
`D, D`	Delete cell
`Z`	Undo cell deletion
`Y`	Change cell to Code
`M`	Change cell to Markdown
`Shift + M`	Merge selected cells
`Up / Down`	Navigate cells
`H`	Show all shortcuts

Edit Mode (press Enter)

Shortcut	Action
`Ctrl + Enter`	Run current cell
`Shift + Enter`	Run + move to next cell
`Alt + Enter`	Run + insert below
`Ctrl + /`	Comment line(s)

Markdown Formatting

Syntax	Result
`# Heading`	Heading
`**bold**`	**bold**
`*italic*`	*italic*
`- item`	Bullet List
`1. item`	Numbered List
`` `code` ``	Inline Code
`![Alt](img_url)`	Add Image

Magic Commands

Command	Usage Example
`%time`	Time one-line
`%%time`	Time whole cell
`%matplotlib inline`	Show plots in notebook
`%whos`	View all variables

Displaying Outputs

Syntax	Result
`print("Hello")`	Output printed
`display(obj)`	Pretty display of objects
`from IPython.display import Image, HTML`	Embed images or HTML

Tips

- Use Ctrl + S to save notebook
- Use Checkpoints for version control (File → Save and Checkpoint)
- Use Restart Kernel if the notebook is stuck or misbehaving
- Use "Kernel → Restart & Run All" to run everything from start

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