



Jupyter Notebook setup

Getting started with Jupyter Notebooks in ACCA ML001

Taught and practical components

- This course consists of both taught and practical components.
- Some of the taught components are video lectures, delivered with slides that are downloadable as PDFs.
- Some of the taught components are integrated with practical demonstration, delivered using Jupyter Notebooks.
- The practical components are exercises to be completed in Jupyter Notebooks.

What is a Jupyter Notebook

- Jupyter Notebooks allow you to write code in an interactive environment.
- A Jupyter Notebook combines code inputs and outputs, formatted text, diagrams, and more.
- For further details, please see [Project Jupyter](#), and particularly [their documentation on using a Jupyter Notebook](#).

Your virtual environment

- Your virtual environment is provided by edX and Vocareum.
- Every Jupyter Notebook referenced in this course is accessible through the environment provided by edX and Vocareum.
- Vocareum operates in the background, so you probably won't need to access it directly, but it makes it much easier to follow the course without having to maintain your own development environment.

How to use Jupyter Notebooks

- We recommend you work through the Jupyter Notebooks alongside the practical demonstrations.
- As you go through the course, some pages will contain lectures or practical demonstrations, while others will contain Jupyter Notebooks.
- Each of the practical demonstrations will refer to a particular Jupyter Notebook, so you can work alongside these demonstrations: sometimes practice what you're learning as you listen; and sometimes completing exercises and then checking the solution in the demonstration.

How to use Jupyter Notebooks

- When you open a course page with a Jupyter Notebook, your browser should look like this.
- Scroll down to focus on the Jupyter Notebook.

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1.2.2 Notebook 1 - Introduction to Python

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Jupyter notebooks allow you to write code in an interactive environment. They are used throughout the course, so this notebook introduces the fundamentals needed to start coding.

Part 1 - Jupyter Notebook (External resource)

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Select items to perform actions on them.

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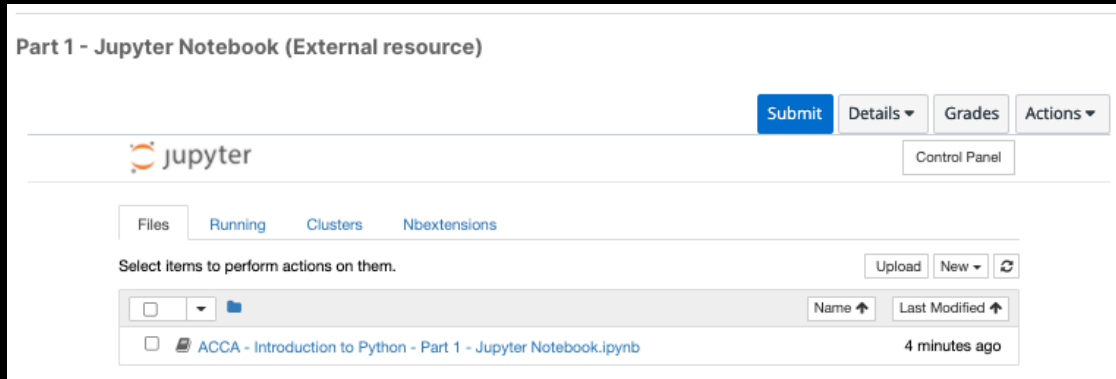
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<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	Name ↑	Last Modified ↑
<input type="checkbox"/>		ACCA - Introduction to Python - Part 1 - Jupyter Notebook.ipynb		4 minutes ago

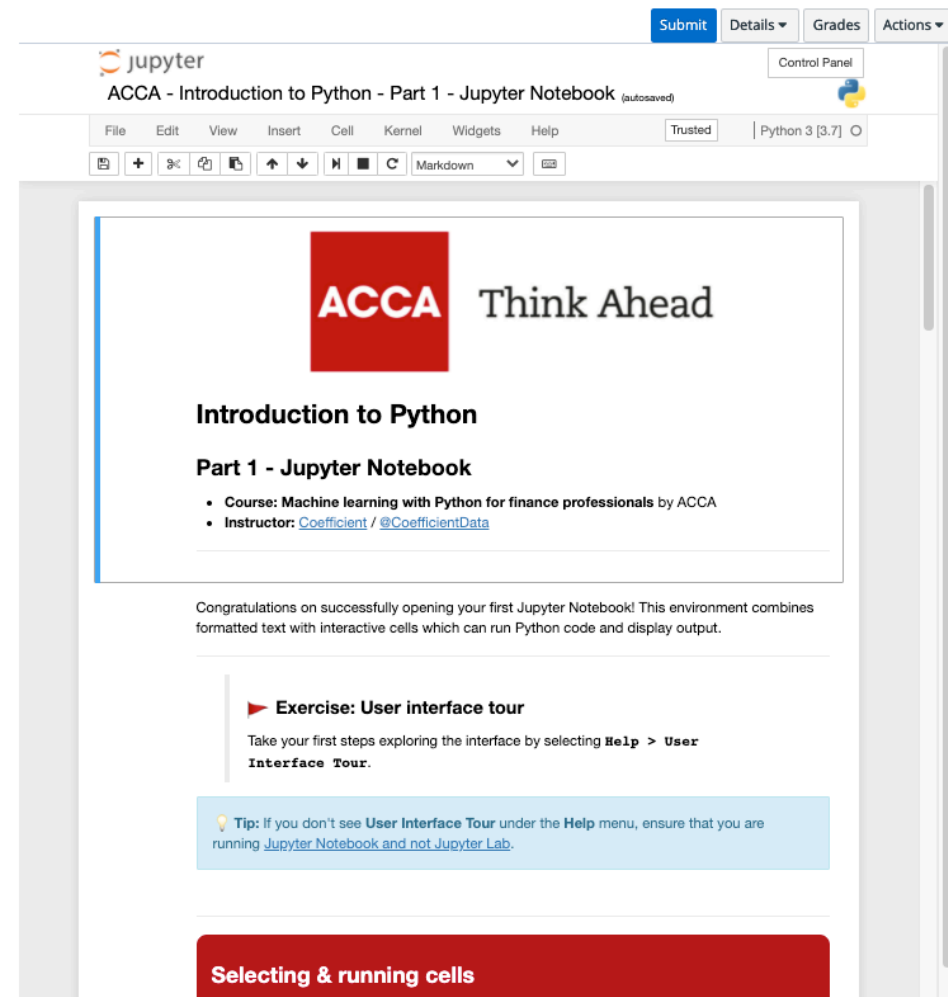
How to use Jupyter Notebooks

- This Jupyter environment accesses files and folders within a virtual machine, embedded into edX for this course.
- These are much like the files and folders on your computer.
- In the *Files* tab, selected here, double click on the file named *ACCA – Introduction to Python – Part 1 – Jupyter Notebook.ipynb* to open it.



How to use Jupyter Notebooks

- When you've opened the file, you will be ready to work in the Notebook, which should look like the screenshot seen here.
- Take some time to get used to this interface, as you will use it a lot during this course. For the most part, it is laid out like traditional office applications including Excel and Word.
- Please follow the tutorial in this course (1.2.1 *Your first Jupyter notebook*), for more detail on using Jupyter Notebooks.
- In addition, there are many tips throughout the course, to help you become a Jupyter Notebooks power user!



The screenshot displays the Jupyter Notebook interface. At the top, there are buttons for 'Submit', 'Details', 'Grades', and 'Actions'. Below these is the 'Control Panel' and the Jupyter logo. The main header reads 'ACCA - Introduction to Python - Part 1 - Jupyter Notebook (autosaved)'. A menu bar includes 'File', 'Edit', 'View', 'Insert', 'Cell', 'Kernel', 'Widgets', and 'Help'. Below the menu bar is a toolbar with icons for file operations, cell navigation, and execution. The notebook content area shows the ACCA logo and the text 'Think Ahead'. The title is 'Introduction to Python', followed by 'Part 1 - Jupyter Notebook'. Below this, it lists the course as 'Machine learning with Python for finance professionals by ACCA' and the instructor as 'Coefficient / @CoefficientData'. A congratulatory message states: 'Congratulations on successfully opening your first Jupyter Notebook! This environment combines formatted text with interactive cells which can run Python code and display output.' An 'Exercise: User interface tour' section follows, advising users to explore the interface by selecting 'Help > User Interface Tour'. A tip box notes: 'Tip: If you don't see User Interface Tour under the Help menu, ensure that you are running Jupyter Notebook and not Jupyter Lab.' At the bottom, a red button labeled 'Selecting & running cells' is visible.

Thank you!

- We hope this course gets you excited about Jupyter Notebooks, along with all the other skills and tools we've put into it.
- If you have any problems with your Jupyter Notebooks during this course, please flag these right away on the [notice board]
- Like Excel and many other applications, the Jupyter Notebook is simple to learn, fun to experiment with, and deceptively powerful.
- Please enjoy our course, and remember to enjoy experimenting!