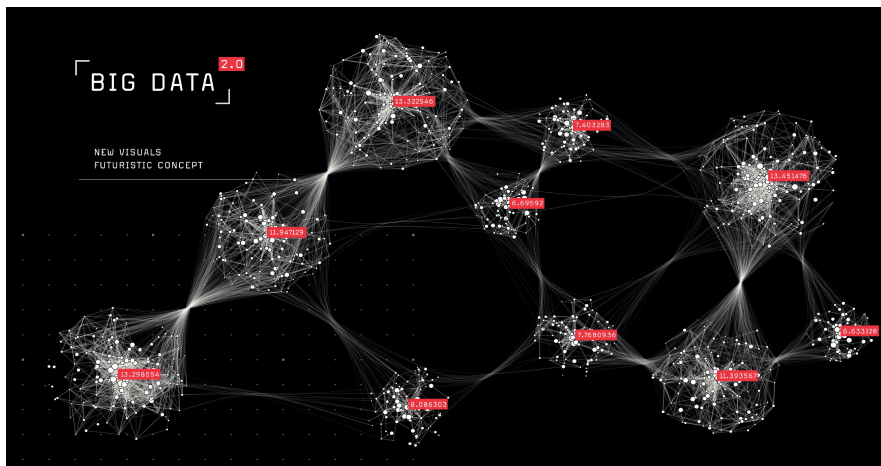




Data Science in Action using Python

An AAIL Artificial Intelligence– Technical Track Course



Setup Sandbox

Anaconda Installation and Setup



Anaconda Installation

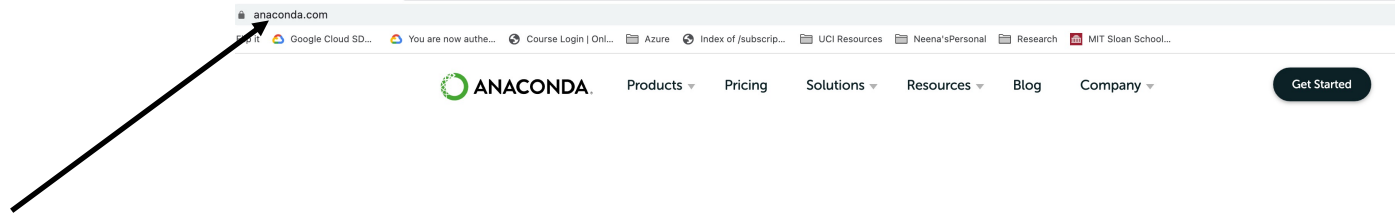
1. Download Anaconda Individual Edition
2. Install Anaconda
3. Start Anaconda
4. Start Jupyter Notebook
5. Download Sandbox files from Course site
6. "Hello World" notebook

The screenshot shows the Anaconda website homepage. At the top, there is a navigation bar with the Anaconda logo and menu items: Products, Pricing, Solutions, Resources, Blog, and Company. A 'Get Started' button is located in the top right corner. The main content area features the headline 'Data science technology for human sensemaking.' with 'human sensemaking.' in green. Below the headline is a sub-headline: 'A movement that brings together millions of data science practitioners, data-driven enterprises, and the open source community.' At the bottom of the page, there is a 'Get Started' button and a collection of circular profile pictures of diverse individuals.



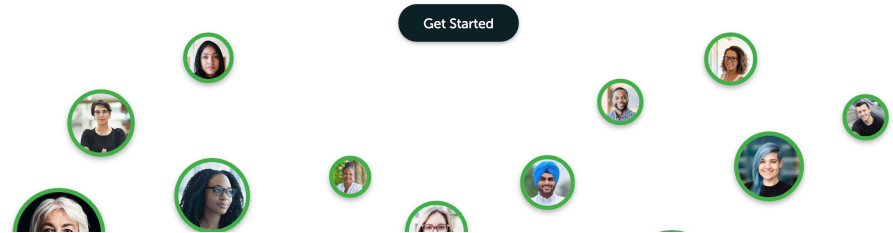
Install Anaconda

Go to Anaconda.com



Data science technology for
human sensemaking.

A movement that brings together millions of data science practitioners,
data-driven enterprises, and the open source community.





Install Anaconda

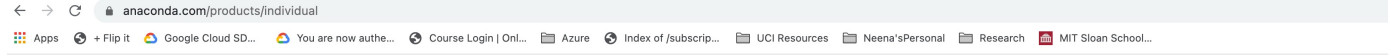
Hover over Products

Choose Individual Edition

The screenshot shows the Anaconda website header with a navigation menu. The 'Products' dropdown menu is open, listing five options: Individual Edition (Open Source Distribution), Commercial Edition (Commercial Package Manager), Team Edition (Package Repository), Enterprise Edition (Full Data Science Platform), and Professional Services (Data Experts Work Together). The 'Individual Edition' option is highlighted with a black box and a white border. Two yellow callout boxes with black arrows point to the 'Products' dropdown and the 'Individual Edition' option. A 'Get Started' button is visible in the top right corner of the page.



Install Anaconda



Products ▾

Pricing

Solutions ▾

Resources ▾

Blog

Company ▾

Get Started

Click "Download"



Individual Edition

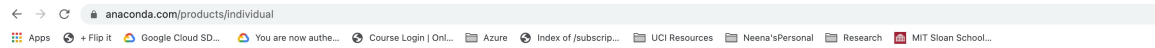
Your data science toolkit

With over 20 million users worldwide, the open-source Individual Edition (Distribution) is the easiest way to perform Python/R data science and machine learning on a single machine. Developed for solo practitioners, it is the toolkit that equips you to work with thousands of open-source packages and libraries.

Download






Install Anaconda



Choose one based on your Operating System

Anaconda Installers

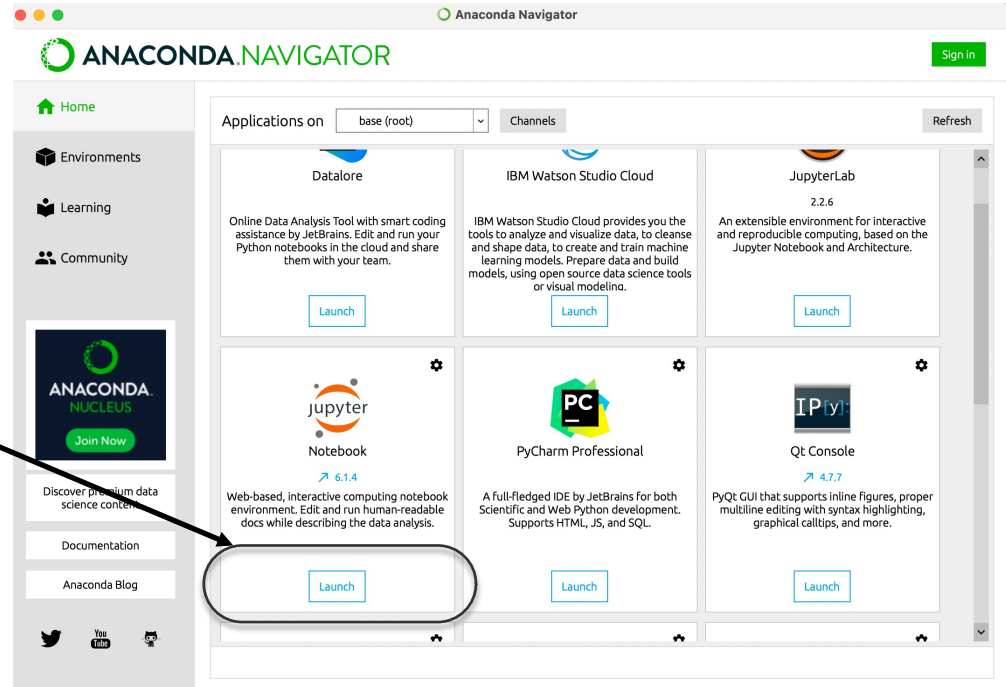
Windows 	MacOS 	Linux 
Python 3.8 64-Bit Graphical Installer (457 MB) 32-Bit Graphical Installer (403 MB)	Python 3.8 64-Bit Graphical Installer (435 MB) 64-Bit Command Line Installer (428 MB)	Python 3.8 64-Bit (x86) Installer (529 MB) 64-Bit (Power8 and Power9) Installer (279 MB)



Anaconda-Navigator



Start Anaconda





Start Anaconda

jupyter Quit Logout

Files Running Clusters

Select items to perform actions on them. Upload New Refresh

0 Documents / GitHub / COVID_Project Name Last Modified File size

<input type="checkbox"/>	..	seconds ago
<input type="checkbox"/>	input	3 days ago
<input type="checkbox"/>	Notebook-Class-Assignment-Answers	15 days ago
<input type="checkbox"/>	Notebook-Class-exercises	seconds ago
<input type="checkbox"/>	output	15 days ago

Click "Notebook-Class-exercises"



Start Anaconda

jupyter

Quit Logout

Files Running Clusters

Select items to perform actions on them. Upload New ↕

<input type="checkbox"/>	0 ▾	Documents / GitHub / COVID_Project / Notebook-Class-exercises	Name ↓	Last Modified	File size
		..		seconds ago	
<input type="checkbox"/>		Hello_world.ipynb		3 minutes ago	1.76 kB
<input type="checkbox"/>		Step-2-Describe-Data.ipynb		Running 3 days ago	117 kB
<input type="checkbox"/>		Step-3-Prepare-Data-Task-0.ipynb		3 days ago	4.47 kB
<input type="checkbox"/>		Step-3-Prepare-Data-Task-1-2-Select-and-Filter-operation.ipynb		3 days ago	72.1 kB
<input type="checkbox"/>		Step-3-Prepare-Data-Task-3-Reformat-operation.ipynb		3 days ago	81.4 kB
<input type="checkbox"/>		Step-3-Prepare-Data-Task-4-County.ipynb		3 days ago	107 kB

Click "Hello_world.ipynb"



Start Anaconda

Add a cell

Restart

The screenshot shows the Anaconda Notebook interface. The top menu bar includes File, Edit, View, Insert, Cell, Kernel, Widgets, and Help. The right side of the menu bar shows 'Trusted' and 'Python 3'. Below the menu bar is a toolbar with icons for saving, adding a cell, undo, redo, copy, paste, moving up/down, running, and clearing. The main area displays a notebook titled 'Hello World' with several code cells. Annotations with yellow boxes and arrows point to specific features: 'Add a cell' points to the '+' icon; 'Restart' points to the 'Run' button; 'Run the code' points to the 'Run' button; and 'Move cell up' points to the upward arrow icon.

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Save + Undo Redo Copy Paste Move Up Move Down Run Clear Run Code

Hello World

```
In [1]: import os
```

```
In [2]: your_name = "Arvind Sathi"
```

```
In [3]: print("Hello ", your_name)
```

Hello Arvind Sathi

```
In [4]: current_dir = os.getcwd()
```

```
In [5]: current_dir
```

```
Out[5]: '/Users/asathi/Documents/GitHub/COVID_Project/Notebook-Class-exercises'
```

```
In [ ]:
```



Start Anaconda

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Code

Hello World

Import libraries

```
In [1]: import os
```

Assign variable

```
In [2]: your_name = "Arvind Sathi"
```

Print variable

```
In [3]: print("Hello ", your_name)
Hello Arvind Sathi
```

Find current directory

```
In [4]: current_dir = os.getcwd()
In [5]: current_dir
Out[5]: '/Users/asathi/Documents/GitHub/COVID_Project/Notebook-Class-exercises'
In [ ]:
```