

Online Workshop on Deep Learning - Computer Vision

Install Anaconda

What is Anaconda? The open-source Anaconda Distribution is the easiest way to perform Python/R data science, deep learning and machine learning on Linux, Windows, and Mac OS X. With over 15 million users worldwide, it is the industry standard for developing, testing, and training on a single machine. In this course, we will be using Anaconda to set up our deep learning environment.

Installation Instructions: Go to <https://www.anaconda.com/distribution/> and download the installer for your OS (Windows / Mac / Linux)

After you have successfully downloaded and run the installer, check to see that “**Anaconda Navigator**” has now been added to your system.

Run **Anaconda Navigator** and select **Jupyter Lab** or **Jupyter Notebook**.

IDE USE: The Jupyter Notebook, Google Colab

What is Jupyter Notebook? The Jupyter Notebook is an open source web application that you can use to create and share documents that contain live code, equations, visualizations, and text. Jupyter Notebook is maintained by the people at [Project Jupyter](https://projectjupyter.org/)

What is Google Colab? Collaboratory is a free Jupyter notebook environment that requires no setup and runs entirely in the cloud. With Collaboratory you can write and execute code, save and share your analyses, and access powerful computing resources, all for free from your browser.

Installation Instructions

Log in to Google Drive on your Google account

Click on “New”

If there is no option to create a new “**Google Colaboratory**” notebook, click on “More”, then “Connect more apps”, and search for “**Google Colaboratory**”

Once you have found it, connect the app to your drive and you should be able to create new “**Google Colaboratory**” documents

In this course, we recommend using the **Jupyter Notebook/Colab** to run your code and experiments. It is fast and convenient!

Jupyter Notebook versus Collaboratory

- To work locally on your machine or on remote servers use Jupyter notebook.
- Jupyter notebook does not require uploading of dataset or images to the cloud.
- Google Colab runs on Google Cloud Platform (GCP). Hence, it's robust, flexible infrastructure.
- <https://colab.research.google.com/> For more information refer to this link.