

# Preparing Python environment for Data Science CodeLab

## 1. Install Python

Windows - <https://www.python.org/ftp/python/3.7.4/python-3.7.4-amd64.exe>

\* During installation make sure you tick the checkbox **Add Python3.7 to PATH**

\* If you are using a Mac or Linux, it is very likely that Python is already installed on your system. If not, I believe you have enough power and skills to google and install on your own.

## 2. Creating virtual environment

Different projects have different package dependencies and version requirements. Hence to avoid any conflicts it is always a good idea to maintain a separate environment for each project/workshop.

- a) Create a fresh directory (at any location of your preference) by name **GDG\_DataScience**
- b) Paste the requirements.txt file inside the newly created directory **GDG\_DataScience**
- c) Open CMD (Windows) or Terminal (Mac/Linux)
- d) Navigate into the **GDG\_DataScience** directory which you created in step (a) and try to execute the following statements (1 at a time, do not include the \$ symbol when you paste or type the commands)

```
$ pip install virtualenv
```

```
$ virtualenv ds_venv
```

## 3. Activating virtual environment and installing required packages

Open CMD (Windows) or Terminal (Mac/Linux)

Navigate into the **GDG\_DataScience** directory and execute either of the below commands.

```
$ ds_venv\Scripts\activate (Windows)
```

**OR**

```
$ source ds_venv/bin/activate (Mac/Linux)
```

Now execute the below command to install all the required packages

```
$ pip install -r requirements.txt
```

\* This may take (5-15 minutes) depending on your internet and computer speed.

Make sure you read the instructions carefully. Any command executed from wrong directory may get executed successfully but will fail to give intended results.

See you at the event ;)

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