



DATA SCIENCE: CAREER OF THE FUTURE

INTRODUCTION TO DATA SCIENCE

ENVIRONMENT SETUP

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OBJECTIVE



- This document provides instructions to setup the environment needed for Introduction to Data Science course. It is recommended that environment is setup prior to first session to start lab exercises in the session.

INSTALLATION



I. Installation of Python and associated libraries and Jupyter notebook

This would be accomplished by installing a software package called **Anaconda**. Installation steps for Anaconda are provided below. While the following steps would normally work, it is suggested that you also review Anaconda documentation pages at <https://docs.anaconda.com/anaconda/> for detailed steps.

- a. If you are unsure of anything regarding the installation then bring it up in the first session.
- b. Open <https://www.anaconda.com/download/> in your browser
- c. Scroll to the section where it shows a heading “**Anaconda 2019.07 for Windows Installer**”. (Note that it may show a different version from 2019.07 based on the current release of Anaconda but it would not affect the remaining steps of the installation.)
- d. Make sure to click on the correct operating system for your laptop above the heading. For example, you would click on **Windows** if your laptop has Microsoft Windows.

INSTALLATION



- e. Make sure to have:
 - i. A good network connection (preferably wired) as the file to download in next step is a large file.
 - ii. Plenty of disk space available (it may require 3+ GB for the installation).
- f. Click on the **Download** button below sub-heading “**Python 3.7 version**”. (Note that it may show a different version from 3.7 based on the current release of Python but it would not affect the remaining steps of the installation.)
- g. Make sure to save the file in a known location.
- h. Click the downloaded file to start the **Anaconda** installation. Once you get the **Anaconda** setup window, simply follow the on-screen directions to complete the installation until you get to the “Choose Install Location” window where you can change the installation location by changing the “Destination Folder” if you want. Continue to follow the on-screen directions after changing (or leaving it as is) the “Destination Folder”.

INSTALLATION



- j. After Anaconda installation completes, verify that you see two new entries (one for **Anaconda** and another for **Jupyter Notebook**) in the list of programs after you click on Windows “Start” button. (Note that you may have a slightly different set of steps to verify if you are using an operating system other than Windows).
- k. Click on **Jupyter Notebook** program from the Windows “Start” menu. You should see a new page showing Jupyter logo open in your default web browser. (Note that you would also see a terminal window – you don’t need to use it but **DO NOT CLOSE THIS TERMINAL WINDOW** unless and until you are done with your work).
- l. If you can see the **Jupyter** logo in the browser then your installation has very likely succeeded. You should now have **Python** installed on your laptop. Congratulations!
- m. We will do our first exercise in the first session to complete the verification of installation.