

MSc Data Mining

Topic 02 : Exploratory Data Analysis

Part 02 : Installing Python Packages

Dr Bernard Butler and Dr Kieran Murphy

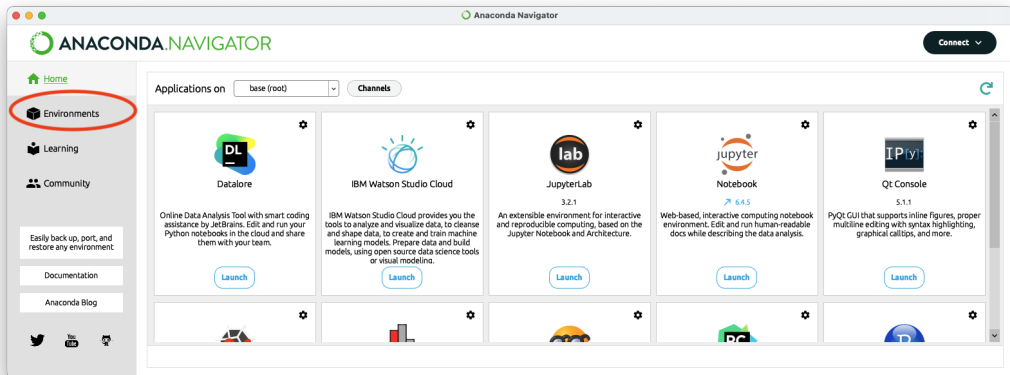
Department of Computing and Mathematics, WIT.
(bernard.butler@wit.ie; kmurphy@wit.ie)

Spring Semester, 2022

Outline

- Installing python packages using Anaconda Navigator

Step 1 — Open Anaconda Navigator and click on Environments



Step 2 — Switch package filter to All, and enter package name in search box

The screenshot shows the Anaconda Navigator application window. The title bar reads "Anaconda Navigator". The main interface has a sidebar on the left with navigation options: Home, Environments, Learning, and Community. The "Environments" section is active, showing a list of environments with "base (root)" selected. The main panel displays a table of installed packages. At the top of this panel, there is a "Search Environments" box, a filter dropdown menu currently set to "Installed", and buttons for "Channels" and "Update index...". A red circle highlights the "Installed" filter dropdown, with a red arrow pointing to it and the text "Change filter from 'Installed' to 'All'". Another red circle highlights the "Search Packages" input box, with a red arrow pointing to it and the text "Enter package name We want". Below the search box, the package list is shown with columns for Name, Description, and Version. The list includes packages like _ipyw_jlab_nb_ex..., alabaster, anaconda, anaconda-client, anaconda-project, aryo, appdirs, applaunchservices, and appnope. The text "dtale" and "pandas-profiling" are written in red next to the "anaconda-client" and "anaconda-project" rows respectively. At the bottom of the package list, it says "436 packages available".

Change filter from "Installed" to "All"

Enter package name We want

dtale

pandas-profiling

Name	Description	Version
✓ _ipyw_jlab_nb_ex...		0.1.0
✓ alabaster		0.7.12
✓ anaconda		2021.11
✓ anaconda-client		1.9.0
✓ anaconda-project		0.10.1
✓ aryo		2.2.0
✓ appdirs		1.4.4
✓ applaunchservices		0.2.1
✓ appnope		0.1.2

436 packages available

Step 3 — Verify required packages are installed or, if not, install them

The image shows two screenshots of the Anaconda Navigator application interface, illustrating the process of verifying and installing required packages.

Top Screenshot: The interface shows the 'Channels' tab. A search bar at the top right contains the text 'dtaale'. Below it, a table lists available packages. The package 'dtaale' is highlighted with a red circle, and its status is indicated by a green circle.

Bottom Screenshot: The interface shows the 'Channels' tab. A search bar at the top right contains the text 'pandas'. Below it, a table lists available packages. The package 'pandas' is highlighted with a red circle, and its status is indicated by a green circle. A red circle also highlights the 'pandas-profiling' package, which is not installed. A red circle highlights the 'pandas' package, which is not installed. A red circle highlights the 'pandas-profiling' package, which is not installed. A red circle highlights the 'pandas' package, which is not installed.

Annotations:

- Enter name* (Red text, pointing to the search bar in the bottom screenshot)
- If not installed, then click to install* (Red text, pointing to the checkbox for 'pandas-profiling' in the bottom screenshot)
- Click Apply to install packages* (Red text, pointing to the 'Apply' button at the bottom right of the bottom screenshot)

Table Data (Bottom Screenshot):

Name	Description	Version
<input type="checkbox"/> geopandas		0.9.0
<input type="checkbox"/> geopandas-base		0.9.0
<input checked="" type="checkbox"/> pandas		1.3.4
<input type="checkbox"/> pandas-datareader		0.9.0
<input checked="" type="checkbox"/> pandas-flavor		0.2.0
<input checked="" type="checkbox"/> pandas-profiling		2.9.0
<input type="checkbox"/> pandasql		0.7.3

7 packages available matching "pandas" 1 package selected

Buttons: Create, Clone, Import, Backup, Remove

Buttons: Apply, Clear

Step 4 —If packages are not listed then add extra channels

