

MSc Data Mining

Topic 02 : Exploratory Data Analysis

Part 02 : Installing Python Packages

Dr Bernard Butler and Dr Kieran Murphy

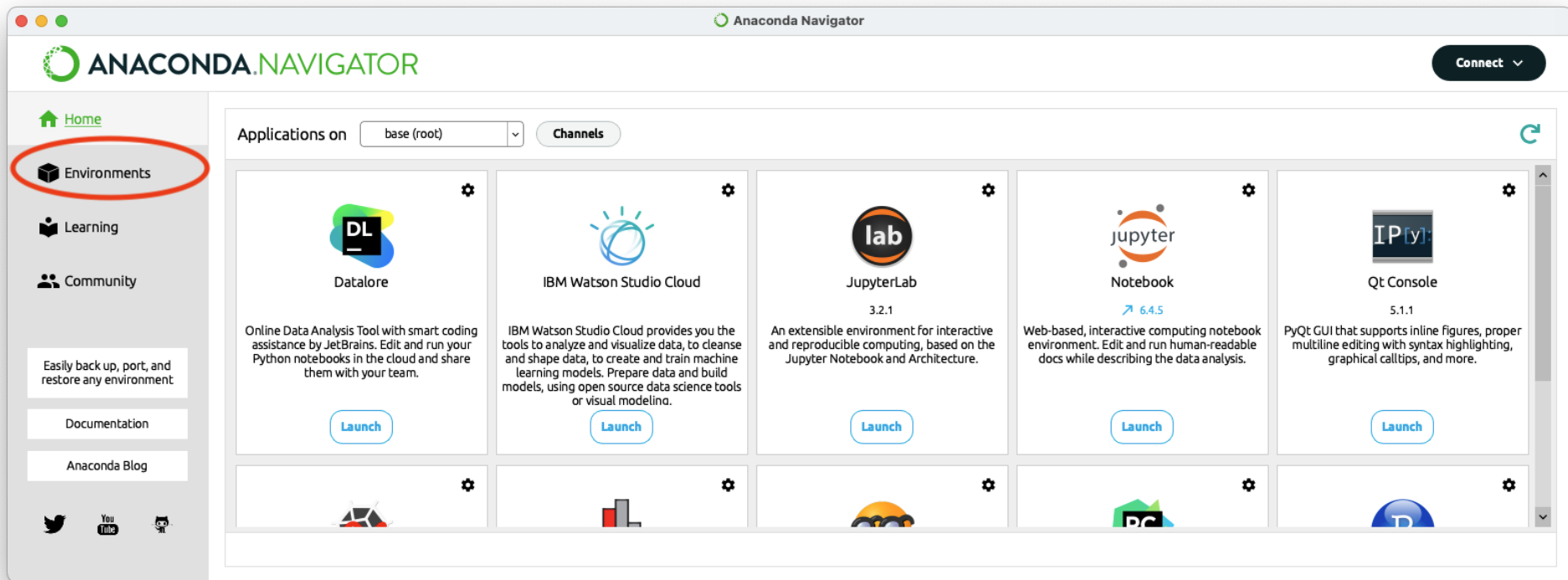
Department of Computing and Mathematics, WIT.
(bernard.butler@wit.ie; kmurphy@wit.ie)

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 header area contains the "ANACONDA.NAVIGATOR" logo on the left, a red annotation "Change filter from 'Installed' to 'All'" in the center, and a "Connect" button on the right. Below the header, the left sidebar has a "Home" button and a list of links: "Environments", "Learning", and "Community". The main content area is divided into three sections. The top section has a "Search Environments" search bar, a dropdown menu currently set to "Installed" (circled in red), a "Channels" button, and an "Update index..." button. The bottom section has a "Search Packages" search bar (circled in red). The central part of the interface displays a table of installed packages. The table has columns for "Name", "T", "Description", and "Version". The packages listed are: _ipyw_jlab_nb_ex..., alabaster, anaconda, anaconda-client, anaconda-project, anyio, appdirs, applaunchservices, and appnope. The "anaconda-client" row is highlighted. Red annotations "Enter package name" and "We want" are placed over the "anaconda-client" row. Below the table, the text "436 packages available" is shown. At the bottom of the sidebar, there are icons for "Create", "Clone", "Import", "Backup", and "Remove".

ANACONDA.NAVIGATOR

Change filter from "Installed" to "All"

Connect

Search Environments

base (root)

Installed

Channels

Update index...

Search Packages

Name	T	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
✓ anyio	○		2.2.0
✓ appdirs	○		1.4.4
✓ applaunchservices	○		0.2.1
✓ appnope	○		0.1.2

436 packages available

Create Clone Import Backup Remove

Enter package name
We want

dtale
pandas-profiling

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

The image shows two screenshots of the Anaconda Navigator application interface. The top screenshot shows the 'Channels' tab with a search for 'dtale'. The bottom screenshot shows the search results for 'pandas' with a list of available packages. Red circles and text annotations highlight the steps to verify and install packages.

Top Screenshot: The 'Channels' tab is active. A search bar in the top right contains the text 'dtale'. In the table below, the row for 'dtale' is highlighted, and a green checkmark is visible in the 'Name' column.

Name	T	Description	Version
dtale	<input checked="" type="checkbox"/>		1.61.1

Bottom Screenshot: The search results for 'pandas' are displayed. The search bar in the top right contains the text 'pandas'. The table below lists several packages, with 'pandas' and 'pandas-profiling' highlighted. A red circle is drawn around the 'pandas' row, and a red circle is drawn around the 'pandas-profiling' row. A red circle is also drawn around the search bar.

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

If not installed, then click to install

Click Apply to install packages

7 packages available matching "pandas" 1 package selected

Apply Clear