Python Packages Cheat Sheet List of Popular Packages

Overview

If you are using Anaconda to manage your Python packages, for any of the following packages that need to be installed, copy the code to install into the Anaconda Prompt. When prompted, enter **y** to confirm yes to continue. Most of the packages should be pre-installed with a core installation of Anaconda; however, the ones highlighted in the summary table will most likely not be installed with a fresh installation of Anaconda. For a list of all packages that are pre-installed with a new installation of Anaconda please see: https://docs.anaconda.com/anaconda/packages/pkg-docs/

```
(newBase) C:\Users\bogda>conda install -c conda-forge tabula-py
Collecting package metadata (current_repodata.json): done
Solving environment: done
## Package Plan ##
  environment location: C:\Users\bogda\Anaconda3\envs\newBase
  added / updated specs:
    - tabula-py
The following packages will be downloaded:
                                            build
    package
    openjdk-11.0.8
                                                         167.3 MB conda-forge
                                   py38h32f6830_2
    tabula-py-1.4.1
                                                         10.0 MB conda-forge
                                                        177.3 MB
                                           Total:
The following NEW packages will be INSTALLED:
                     conda-forge/win-64::openjdk-11.0.8-0
  tabula-py
                     conda-forge/win-64::tabula-py-1.4.1-py38h32f6830_2
  vs2013_runtime
                     pkgs/main/win-64::vs2013_runtime-12.0.21005-1
Proceed ([y]/n)? y
```

Popular Packages

In the next two pages we have summarized 25 of the top Python packages used by business professionals that are also taught in the various Python courses at <u>Marquee</u>. The packages are listed in alphabetical order in the summary tables and also by usage category below:

- Data manipulation: Numpy; Pandas
- Web scraping: Beautiful Soup; Requests; Selenium; Urllib3
- Visualization: Bokeh; Matplotlib; Plotly; Seaborn
- **Dashboarding**: Dash; Streamlit
- Statistical analysis: SciPy; Statsmodels
- File management: Camelot; OS; Pathlib; Pillow; Shutil; Tabula
- Machine learning: NLTK; OpenCv; PyTesseract; Scikit-learn; SpaCy



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Package Name	Conda Code to Install	Category	Additional Information
beautifulsoup4	conda install -c anaconda beautifulsoup4 Should already come preinstalled with Anaconda	Web Scraping	Links: https://www.crummy.com/software/BeautifulSoup/bs4/doc/https://anaconda.org/anaconda/beautifulsoup4
bokeh	conda install -c bokeh bokeh Should already come preinstalled with Anaconda	Visualization	Links: https://docs.bokeh.org/en/latest/index.html https://anaconda.org/bokeh/bokeh
camelot-py	conda install -c conda-forge camelot-py	File Manipulation (reading PDF files)	Links: https://camelot-py.readthedocs.io/ https://anaconda.org/conda-forge/camelot-py Note: Tkinter and Ghostscript applications are also needed for more advanced uses of Camelot. Instructions on installing them can be found here: https://camelot-py.readthedocs.io/en/master/user/install-deps.html
dash	conda install -c conda-forge dash	Dashboard	Links: https://anaconda.org/conda-forge/dash https://dash.plotly.com/layout
matplotlib	conda install -c conda-forge matplotlib Should already come preinstalled with Anaconda	Visualization	Links: https://matplotlib.org/contents.html https://anaconda.org/conda-forge/matplotlib
nltk	conda install -c anaconda nltk Should already come preinstalled with Anaconda	Machine Learning (NLP)	Links: http://www.nltk.org/ https://anaconda.org/anaconda/nltk
numpy	conda install -c anaconda numpy Should already come preinstalled with Anaconda	Data Manipulation	Links: https://numpy.org/doc/stable/ https://anaconda.org/anaconda/numpy
opencv	conda install -c conda-forge opencv	Machine Learning (OCR)	Links: https://anaconda.org/conda-forge/opencv
os	*part of the standard Python Library	File Management	Link: https://docs.python.org/3/library/os.html
pandas	conda install -c anaconda pandas Should already come preinstalled with Anaconda	Data Manipulation	Links: https://pandas.pydata.org/docs/ https://anaconda.org/anaconda/pandas
pathlib	*part of the standard Python Library	File Management	Link: https://pathlib.readthedocs.io/en/pep428/
pillow	conda install -c conda-forge pillow Should already come preinstalled with Anaconda	File Management (reading image files)	Links: https://pillow.readthedocs.io/en/stable/ https://anaconda.org/conda-forge/pillow
plotly	conda install -c plotly plotly	Visualization	Links: https://plotly.com/python/plotly-express/ https://anaconda.org/plotly/plotly
pytesseract	conda install -c conda-forge pytesseract	Machine Learning (OCR)	Links: https://github.com/madmaze/pytesseract https://anaconda.org/conda-forge/pytesseract



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Package Name	Conda Code to Install	Category	Additional Information
requests	conda install -c anaconda requests Should already come preinstalled with Anaconda	Web Scraping	Links: https://requests.readthedocs.io/en/master/ https://anaconda.org/anaconda/scipy
scikit-learn	conda install -c anaconda scikit-learn Should already come preinstalled with Anaconda	Statistical Analysis	Links: https://scikit-learn.org/ https://anaconda.org/anaconda/scikit-learn
scipy	conda install -c anaconda scipy Should already come preinstalled with Anaconda	Statistical Analysis	Links: https://www.scipy.org/ https://anaconda.org/anaconda/statsmodels
seaborn	conda install -c anaconda seaborn Should already come preinstalled with Anaconda	Visualization	Links: https://seaborn.pydata.org/ https://anaconda.org/anaconda/seaborn
selenium	conda install -c conda-forge selenium	Web Scraping	Links: https://selenium- python.readthedocs.io/installation.html https://anaconda.org/conda-forge/selenium Note: the corresponding Chrome driver should also be downloaded from here: https://sites.google.com/a/chromium.org/chromedr iver/downloads
shutil	*part of the standard Python Library	File Management	Link: https://docs.python.org/3/library/shutil.html
spacy	conda install -c conda-forge spacy	Machine Learning (NLP)	Links: https://spacy.io/ https://anaconda.org/conda-forge/spacy
spacy-model- en_core_web_ sm	<pre>conda install -c conda-forge spacy-model- en_core_web_sm</pre>	Machine Learning (NLP)	Links: https://anaconda.org/conda-forge/spacy-model-en_core_web_sm
statsmodels	conda install -c anaconda statsmodels Should already come preinstalled with Anaconda	Statistical Analysis	Links: https://www.statsmodels.org/stable/index.html https://anaconda.org/anaconda/statsmodels
streamlit	pip install streamlit	Dashboard	Links: https://docs.streamlit.io/en/stable/ https://docs.streamlit.io/en/stable/troubleshooting/ clean-install.html
tabula-py	conda install -c conda-forge tabula-py	File Manipulation (reading PDF files)	Links: https://tabula-py.readthedocs.io/en/latest/ https://anaconda.org/conda-forge/tabula-py
urllib3	conda install -c anaconda urllib3 Should already come preinstalled with Anaconda	Web Scraping	Links: https://urllib3.readthedocs.io/en/latest/ https://anaconda.org/anaconda/urllib3

