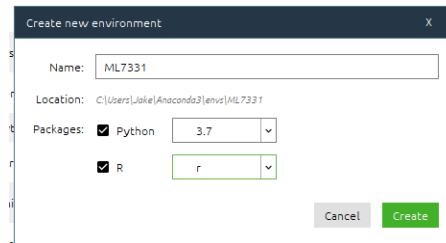
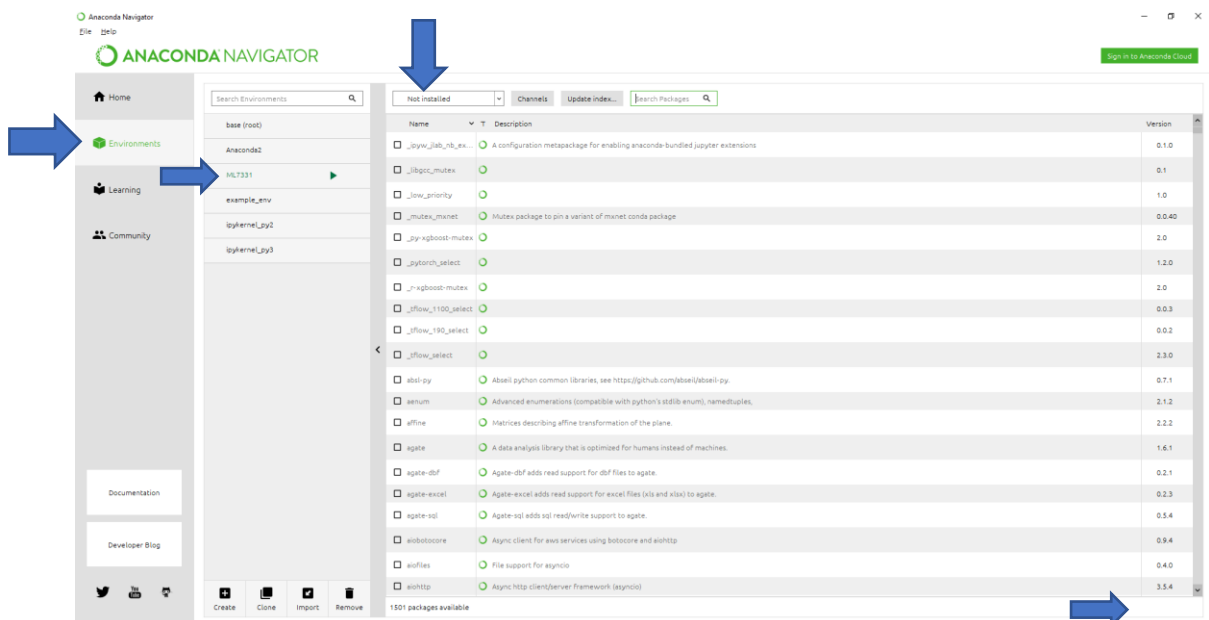


MSDS 7331 Machine Learning I Installation Instructions

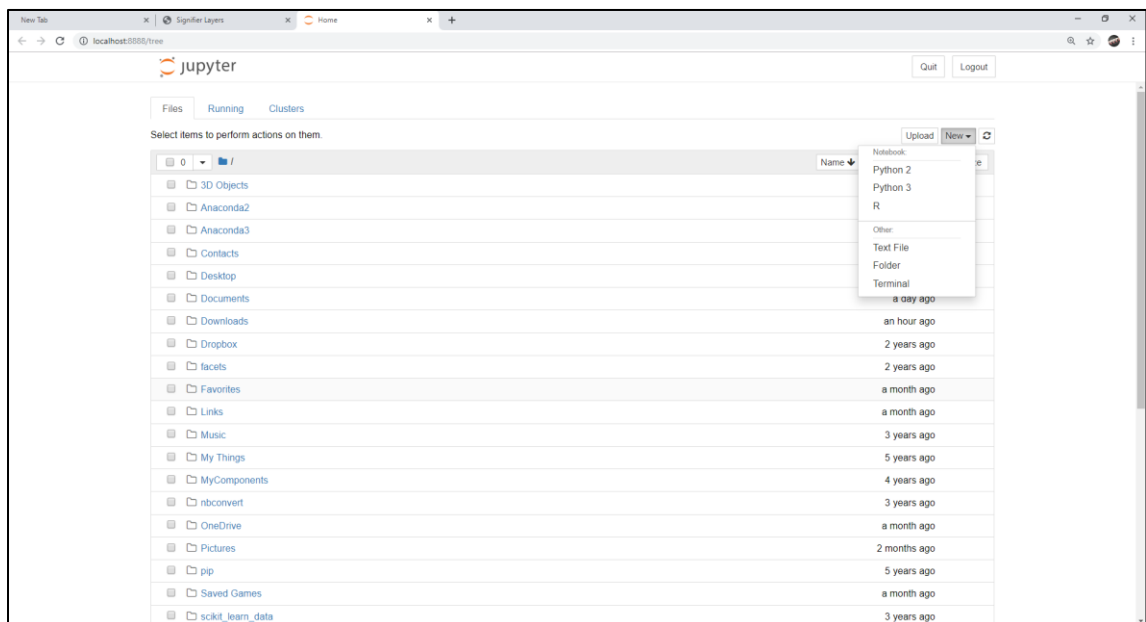
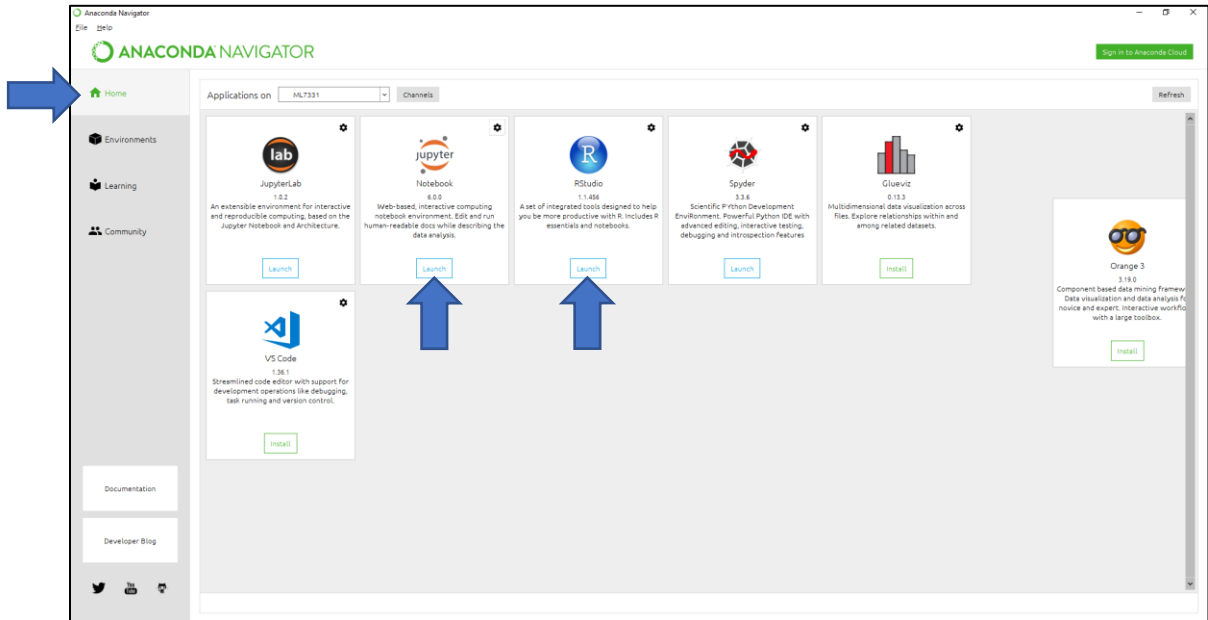
- Download the latest Python 3.x Version of Anaconda.
 - <https://www.anaconda.com/distribution/#download-section>
 - Make sure to click on the proper operating system and 32 or 64-bit graphical installer link.
- Open: Anaconda Navigator (Anaconda 3)
 - This will take a few minutes of setups on the first try, just wait.
- In Anaconda Navigator, create a new environment using the latest versions of Python and R.
 - Once you click create, this step will take quite a while.

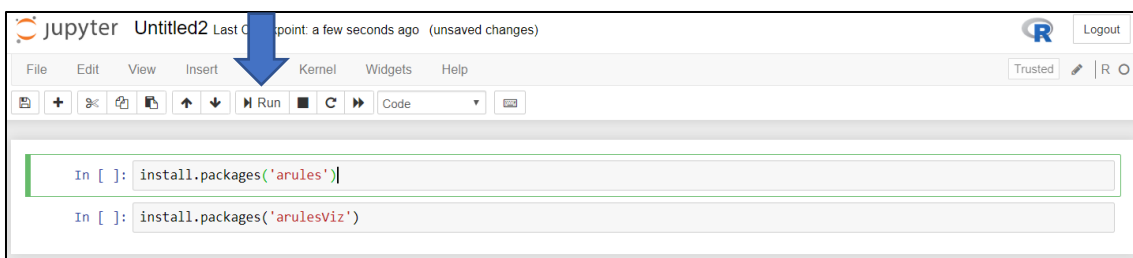


- Go to the “Environments” tab and select the new environment you just created.
- Change the packages dropdown box to “Not Installed”. Search and select:
 - anaconda
 - rpy2
 - tzlocal
 - plotly
 - pillow
- Click the “Apply” button that appears in the bottom right corner once the packages are selected.



- Go to the “Home” tab
 - Install Jupyter Notebook, if needed
 - Install RStudio, if needed
- Launch Jupyter Notebook and select “New” R notebook. Run the following code:
 - `install.packages('arules')`
 - `install.packages('arulesViz')`
 - `install.packages('mlbench')`
- You may also run the `install.packages` code from RStudio to install the required packages. However, you must install and launch RStudio from the Anaconda Navigator.





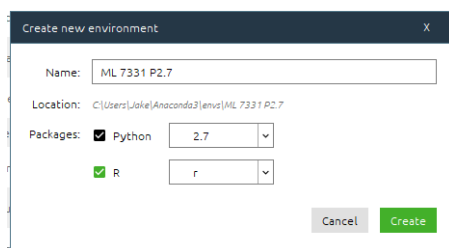
- Press Ctrl+Enter or the play button to execute each highlighted cell.

The install below is only required to run if you want to run the Graphlab example notebooks.

GraphLab Installation Instructions

As of 08/10/2019, Graphlab Create is still not supported on Python 3. This means that if you want to run any of the Graphlab notebook examples, you will need to set up a Python 2.7 environment within Anaconda 3.

- In Anaconda Navigator, create a new environment using Python 2.7 and R.
 - Once you click create, this step will take quite a while.



- Go to the “Environments” tab and select the new environment you just created.
- Change the packages dropdown box to “Not Installed”. Search and select:
 - anaconda
 - rpy2
 - tzlocal
 - plotly
 - pillow
- Open a terminal window in the new environment and type the following command:
 - `pip install tornado==4.5.3`
 - This will downgrade tornado to a version that works with graphlab
- Go to: <https://turi.com/download/academic.html>
 - Register for a free Graphlab Create license
 - From the terminal use the following pip install command to install Graphlab Create:
 - `pip install --upgrade --no-cache-dir https://get.graphlab.com/GraphLab-Create/2.1/YOUR_EMAIL/YOUR_LICENSE_KEY/GraphLab-Create-License.tar.gz`

- From the ML 7331 P2.7 terminal type:
 - ipython notebook
- Create a new Python 2 notebook
- import graphlab as gl and run the gl.get_dependencies() command.

```
[3]: import graphlab as gl  
gl.get_dependencies()
```

By running this function, you agree to the following licenses.

* libstdc++: <https://gcc.gnu.org/onlinedocs/libstdc++/manual/license.html>
* xz: <http://git.tukaani.org/?p=xz.git;a=blob;f=COPYING>

Downloading xz.

Extracting xz.

Downloading gcc-libs.

Extracting gcc-libs.

Copying gcc-libs into the installation directory.