```
mogh.local ~/67-442-F18/CoreML materials/iPhone Resale Project/ML model materials
> virtualenv coreml
Using base prefix '/Library/Frameworks/Python.framework/Versions/3.6'
New python executable in /Users/profh/67-442-F18/CoreML materials/iPhone Resale
Project/ML model materials/coreml/bin/python3.6
Also creating executable in /Users/profh/67-442-F18/CoreML materials/iPhone Resale
Project/ML model materials/coreml/bin/python
Installing setuptools, pip, wheel... done.
mogh.local ~/67-442-F18/CoreML materials/iPhone Resale Project/ML model materials
> source coreml/bin/activate
mogh.local ~/67-442-F18/CoreML materials/iPhone Resale Project/ML model materials
> pip install -U coremltools
Collecting coremltools
  Downloading
https://files.pythonhosted.org/packages/93/26/39fbb0c409ad20e09876d091c46250cc249a2734
d997a5dd09d2ee417385/coremltools-2.0-cp36-none-macosx_10_14_intel.whl (3.1MB)
                                          | 3.1MB 8.5MB/s
Collecting numpy>=1.10.0 (from coremltools)
  Downloading
https://files.pythonhosted.org/packages/74/68/2b00ba3c7390354db2a1706291750b6b7e911f6f
79c0bd2184ae04f3c6fd/numpy-1.15.4-cp36-cp36m-
macosx_10_6_intel.macosx_10_9_intel.macosx_10_9_x86_64.macosx_10_10_intel.macosx_10_10
_x86_64.whl (24.5MB)
    100%
                                        24.5MB 1.7MB/s
Collecting protobuf>=3.1.0 (from coremltools)
 Downloading
https://files.pythonhosted.org/packages/c7/27/133f225035b9539f2dcfebcdf9a69ff0152f56e0
120160ec5c972ea7deb9/protobuf-3.6.1-cp36-cp36m-
macosx_10_6_intel.macosx_10_9_intel.macosx_10_9_x86_64.macosx_10_10_intel.macosx_10_10
_x86_64.whl (1.2MB)
    100%
                                        | 1.2MB 12.5MB/s
Collecting six==1.10.0 (from coremltools)
  Downloading
https://files.pythonhosted.org/packages/c8/0a/b6723e1bc4c516cb687841499455a8505b44607a
b535be01091c0f24f079/six-1.10.0-py2.py3-none-any.whl
Requirement already satisfied, skipping upgrade: setuptools in
./coreml/lib/python3.6/site-packages (from protobuf>=3.1.0->coremltools) (40.6.2)
Installing collected packages: numpy, six, protobuf, coremltools
Successfully installed coremltools-2.0 numpy-1.15.4 protobuf-3.6.1 six-1.10.0
mogh.local ~/67-442-F18/CoreML materials/iPhone Resale Project/ML model materials
> pip install -U pandas
Collecting pandas
  Downloading
https://files.pythonhosted.org/packages/78/78/50ef81a903eccc4e90e278a143c9a0530f05199f
6221d2e1b21025852982/pandas-0.23.4-cp36-cp36m-
macosx_10_6_intel.macosx_10_9_intel.macosx_10_9_x86_64.macosx_10_10_intel.macosx_10_10
x86_64.whl (14.6MB)
    100%
                                      14.7MB 2.2MB/s
Collecting pytz>=2011k (from pandas)
  Downloading
https://files.pythonhosted.org/packages/f8/0e/2365ddc010afb3d79147f1dd544e5ee24bf4ece5
8ab99b16fbb465ce6dc0/pytz-2018.7-py2.py3-none-any.whl (506kB)
                                          || 512kB 3.4MB/s
Requirement already satisfied, skipping upgrade: numpy>=1.9.0 in
./coreml/lib/python3.6/site-packages (from pandas) (1.15.4)
Collecting python-dateutil>=2.5.0 (from pandas)
```

```
Downloading
https://files.pythonhosted.org/packages/74/68/d87d9b36af36f44254a8d512cbfc48369103a3b9
e474be9bdfe536abfc45/python dateutil-2.7.5-py2.py3-none-any.whl (225kB)
                                            || 235kB 2.6MB/s
Requirement already satisfied, skipping upgrade: six>=1.5 in
./coreml/lib/python3.6/site-packages (from python-dateutil>=2.5.0->pandas) (1.10.0)
Installing collected packages: pytz, python-dateutil, pandas
Successfully installed pandas-0.23.4 python-dateutil-2.7.5 pytz-2018.7
mogh.local ~/67-442-F18/CoreML materials/iPhone Resale Project/ML model materials
> pip install -U sklearn
Collecting sklearn
  Downloading
https://files.pythonhosted.org/packages/1e/7a/dbb3be0ce9bd5c8b7e3d87328e79063f8b263b2b
1bfa4774cb1147bfcd3f/sklearn-0.0.tar.gz
Collecting scikit-learn (from sklearn)
  Downloading
https://files.pythonhosted.org/packages/72/c8/7a449014b506d4fed3d7fef5b86c0210ff882a13
da82626a12ce9f7db616/scikit_learn-0.20.0-cp36-cp36m-
macosx_10_6_intel.macosx_10_9_intel.macosx_10_9_x86_64.macosx_10_10_intel.macosx_10_10
_x86_64.whl (7.8MB)
                                          | 7.8MB 3.8MB/s
    100% |
Collecting scipy>=0.13.3 (from scikit-learn->sklearn)
  Downloading
https://files.pythonhosted.org/packages/a0/b6/70bf61c1badb5fea82d4c558e05e76c2dee5e77b
b072fe465d7c7a87287d/scipy-1.1.0-cp36-cp36m-
macosx_10_6_intel.macosx_10_9_intel.macosx_10_9_x86_64.macosx_10_10_intel.macosx_10_10
\times 86 \ 64. \text{whl} \ (16.7 \text{MB})
    100% |
                                          16.7MB 2.2MB/s
Requirement already satisfied, skipping upgrade: numpy>=1.8.2 in
./coreml/lib/python3.6/site-packages (from scikit-learn->sklearn) (1.15.4)
Building wheels for collected packages: sklearn
  Running setup.py bdist_wheel for sklearn ... done
  Stored in directory:
/Users/profh/Library/Caches/pip/wheels/76/03/bb/589d421d27431bcd2c6da284d5f2286c8e3b2e
a3cf1594c074
Successfully built sklearn
Installing collected packages: scipy, scikit-learn, sklearn
Successfully installed scikit-learn-0.20.0 scipy-1.1.0 sklearn-0.0
mogh.local ~/67-442-F18/CoreML materials/iPhone Resale Project/ML model materials
> p3 create_model.py
/Users/profh/67-442-F18/CoreML materials/iPhone Resale Project/ML model
materials/coreml/lib/python3.6/site-packages/sklearn/linear model/base.py:485:
RuntimeWarning: internal gelsd driver lwork query error, required iwork dimension not returned. This is likely the result of LAPACK bug 0038, fixed in LAPACK 3.2.2
(released July 21, 2010). Falling back to 'gelss' driver.
  linalg.lstsq(X, y)
```