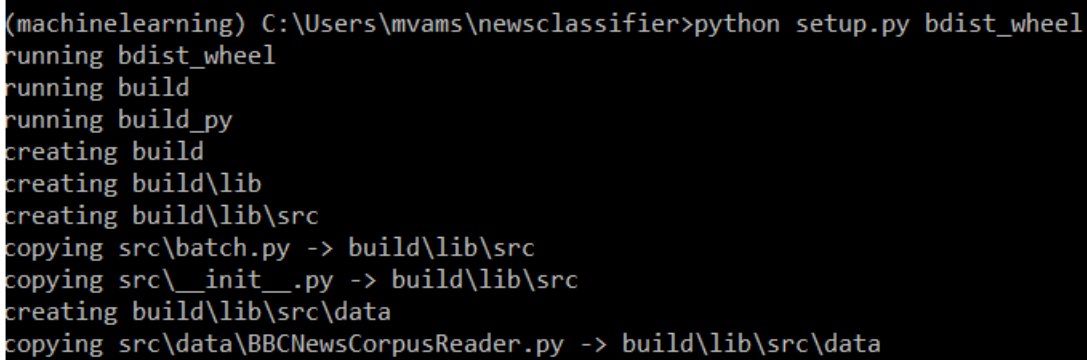# BBC News Classifier Deployment Instructions for Windows

Download the BBC News Classifier source code from GitHub.
Launch command prompt
cd (change directory) to the location where source code is downloaded.
 Create the build distribution wheel for the source code by executing the following command:
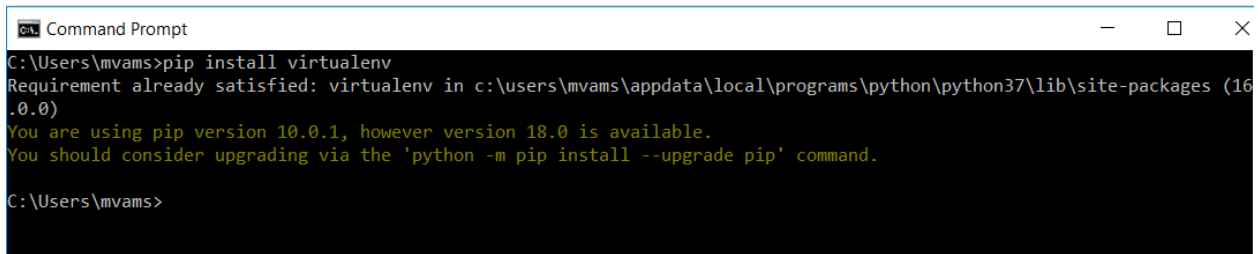

Figure 1: Build Distribution Wheel
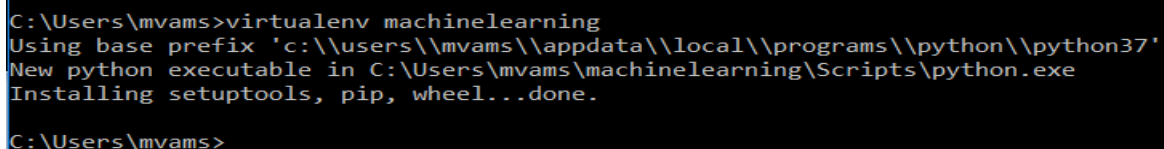
Install virtualenv package by executing the following command:

Create a virtualenv (nice thing to do) machinelearning can be any name but I chose machinelearning.
Execute the command in the screenshot below:

Figure 2: Create virtualenv

Activate the virtualenv by executing the activate.bat file in Scripts folder of virtualenv (machinelearning)
as shown in the screenshot below:

```
C:\Users\mvams>cd newsclassifier

C:\Users\mvams\newsclassifier>C:\Users\mvams\machinelearning\Scripts\activate.bat

(machinelearning) C:\Users\mvams\newsclassifier>
```

Figure 3:Activate virtualenv

Install the Build Distribution Wheel created in Step 2 in the virtualenv by executing the command shown in the screenshot below:

```
Command Prompt - pip  install C:\Users\mvams\newsclassifier\dist\newsclassifier-0.1.0-py3-none-any.whl

(machinelearning) C:\Users\mvams\newsclassifier>pip install C:\Users\mvams\newsclassifier\dist\newsclassifier-0.1.0-py3-none-any.whl
Processing c:\users\mvams\newsclassifier\dist\newsclassifier-0.1.0-py3-none-any.whl
Collecting yellowbrick (from newsclassifier==0.1.0)
  Using cached https://files.pythonhosted.org/packages/ca/64/ffa3ae377d0841595335f9ae402ecd777d7a275746c7389feb68c1386110/yellowbrick-0.8-py2.py3-none-any.whl
Collecting numpy (from newsclassifier==0.1.0)
  Using cached https://files.pythonhosted.org/packages/90/ca/fac7871a7c7d78beb78d7d9562b8d5bfce9ff316dc6c2a7ac34927895609/numpy-1.15.1-cp37-none-win_amd64.whl
Collecting sklearn (from newsclassifier==0.1.0)
Collecting flask (from newsclassifier==0.1.0)
  Using cached https://files.pythonhosted.org/packages/7f/e7/08578774ed4536d3242b14dacb4696386634607af824ea997202cd0edb4b/Flask-1.0.2-py2.py3-none-any.whl
Collecting scipy (from newsclassifier==0.1.0)
  Using cached https://files.pythonhosted.org/packages/c4/f3/752fd6778a9d07fddb2b02dac5895287e594d2d0d156a2a422c710f6a851/scipy-1.1.0-cp37-none-win_amd64.whl
Collecting nltk (from newsclassifier==0.1.0)
Collecting python-dotenv (from newsclassifier==0.1.0)
  Using cached https://files.pythonhosted.org/packages/24/3d/977140bd94bfb160f98a5c02fdfbb72325130f12a325cf993182956e9d0e/python_dotenv-0.9.1-py2.py3-none-any.whl
Collecting requests (from newsclassifier==0.1.0)
  Using cached https://files.pythonhosted.org/packages/65/47/7e02164a2a3db50ed6d8a6ab1d6d60b69c4c3fdf57a284257925dfc12bda/requests-2.19.1-py2.py3-none-any.whl
Collecting matplotlib>=1.5.1 (from yellowbrick->newsclassifier==0.1.0)
  Using cached https://files.pythonhosted.org/packages/eb/b7/4a5ae8f5fb745109a9425c4118c449447c8119ded7b401c655e86def677a/matplotlib-2.2.3-cp37-cp37m-win_amd64.whl
Collecting scikit-learn>=0.19 (from yellowbrick->newsclassifier==0.1.0)
  Using cached https://files.pythonhosted.org/packages/ad/af/1288e50e80309d9de6b8ffb44c3cc8c754f1283d124ffa4a9940a96f7539/scikit_learn-0.19.2-cp37-cp37m-win_amd64.whl
```

Figure 4: Install News Classifier Wheel

Start the Model Fitting process by executing the FitModel command shown in the screenshot below:

```
(machinelearning) C:\Users\mvams\newsclassifier>FitModel
```