Running the NLP workshop labs

1) Install Docker CE

https://www.docker.com/community-edition

2) Open a terminal and run Docker to launch the workshop image in a Docker container

$ docker run -p 8889:8888 jayurbain/deepnlpintro:latest

You will see something like the following. Copy the token highlighted below.

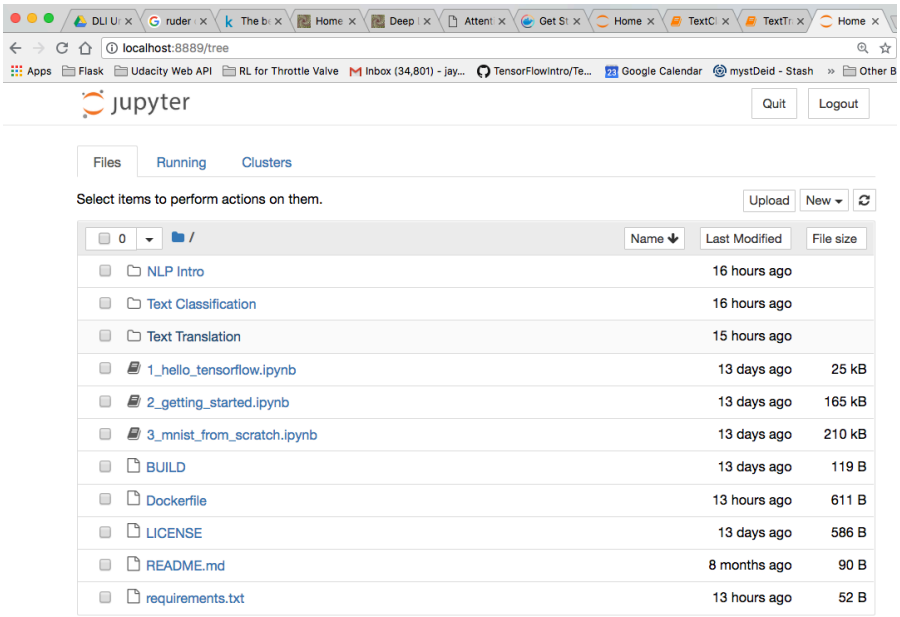
```
$ docker run -p 8889:8888  jayurbain/deepnlpintro:latest
[I 00:54:28.847 NotebookApp] Writing notebook server cookie secret to
/root/.local/share/jupyter/runtime/notebook_cookie_secret
[W 00:54:28.889 NotebookApp] WARNING: The notebook server is listening on all IP addresses
and not using encryption. This is not recommended.
[I 00:54:28.905 NotebookApp] Serving notebooks from local directory: /notebooks
[I 00:54:28.905 NotebookApp] 0 active kernels
[I 00:54:28.905 NotebookApp] The Jupyter Notebook is running at:
[I 00:54:28.905 NotebookApp]
http://7da85c11dc3a:8888/?token=e1bc2fe905e1b0de7ec0820b03841c9d7d3bb434377540df
[I 00:54:28.906 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice
to skip confirmation).
[C 00:54:28.907 NotebookApp]

    Copy/paste this URL into your browser when you connect for the first time,
    to login with a token:

http://7da85c11dc3a:8888/?token=e1bc2fe905e1b0de7ec0820b03841c9d7d3bb434377540df&
token=e1bc2fe905e1b0de7ec0820b03841c9d7d3bb434377540df
```

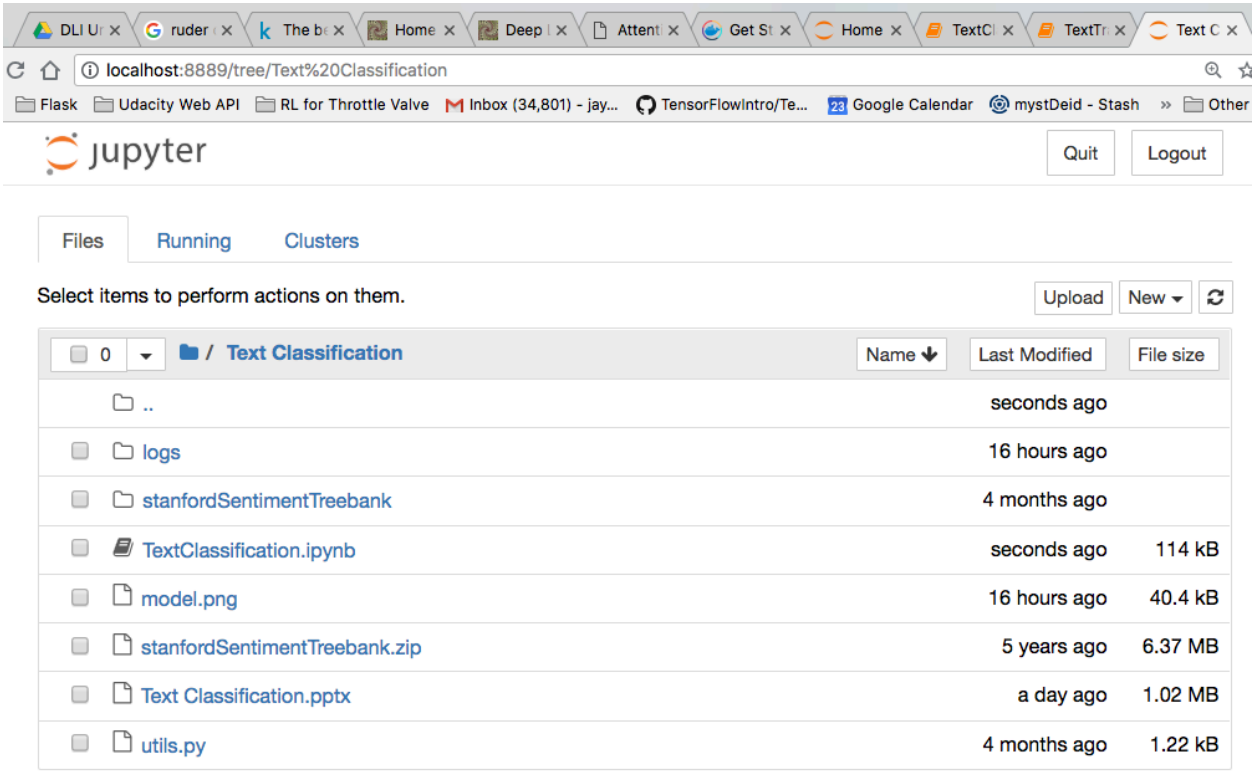
3) Open Chrome browser to localhost, port 8889, with the token

http://localhost:8889/?token=e1bc2fe905e1b0de7ec0820b03841c9d7d3bb434377540df

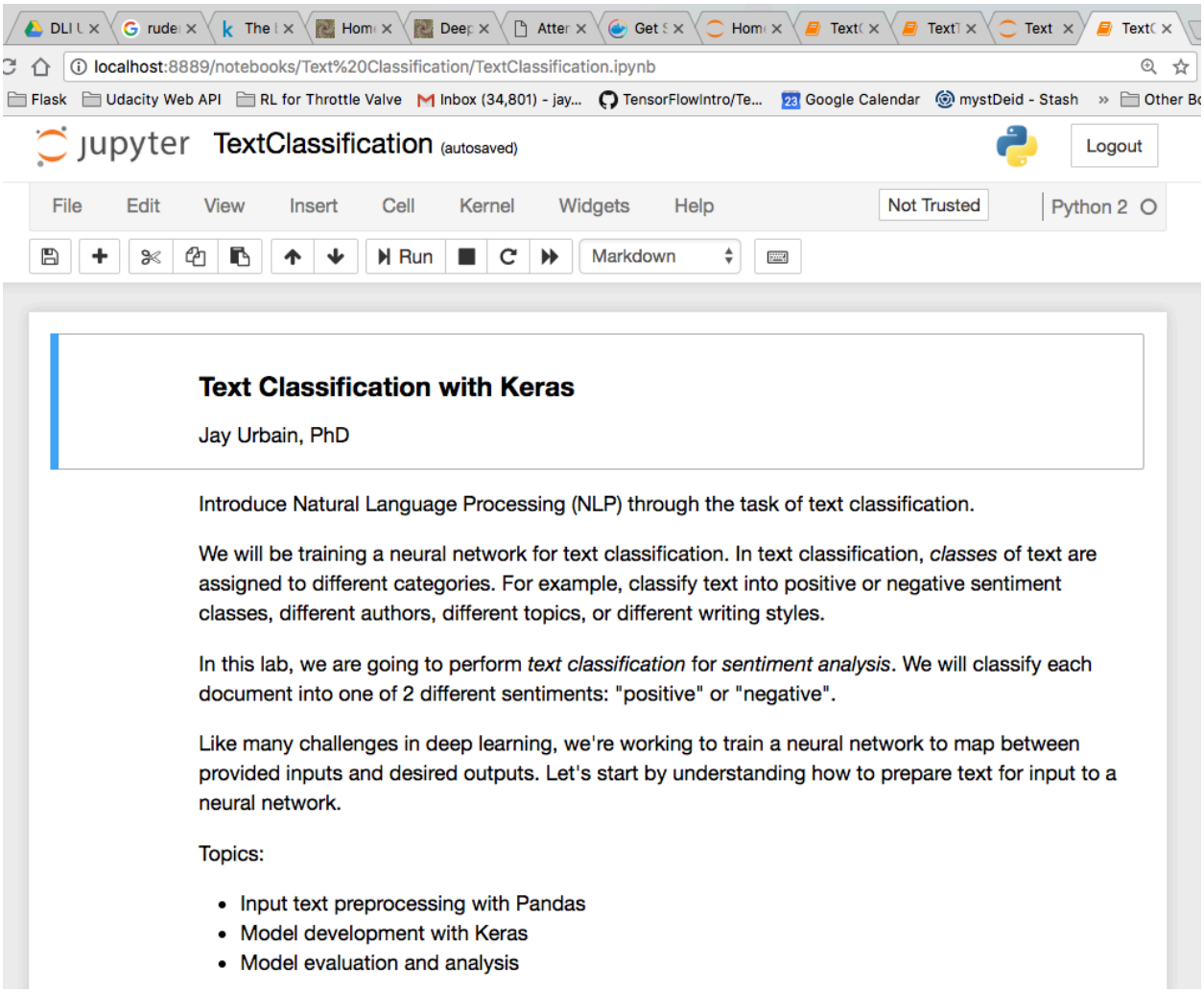


4) Navigate to the Text Classification lab

Select the Text Classification directory.



Select the TextClassification.ipynb notebook:


localhost:8889/notebooks/Text%20Classification/TextClassification.ipynb
Flask
Udacity Web API
RL for Throttle Valve
Inbox (34,801) - jay...
TensorFlowIntro/Te...
Google Calendar
mystDeid - Stash
jupyter
TextClassification (autosaved)
Logout
File
Edit
View
Insert
Cell
Kernel
Widgets
Help
Not Trusted
Python 2
Run
Markdown
Text Classification with Keras
Jay Urbain, PhD
Introduce Natural Language Processing (NLP) through the task of text classification.
We will be training a neural network for text classification. In text classification, classes of text are assigned to different categories. For example, classify text into positive or negative sentiment classes, different authors, different topics, or different writing styles.
In this lab, we are going to perform text classification for sentiment analysis. We will classify each document into one of 2 different sentiments: "positive" or "negative".
Like many challenges in deep learning, we're working to train a neural network to map between provided inputs and desired outputs. Let's start by understanding how to prepare text for input to a neural network.
Topics:
Input text preprocessing with Pandas
Model development with Keras
Model evaluation and analysis