Mosaic ML Exercise

A classification problem to categorize news text into predefined groups.

Data:

Download the newsgroup data set from http://qwone.com/~jason/20Newsgroups/

Tasks:

Write your analysis, design and solution to the following tasks:

- Classify the data using 4 traditional machine learning approaches (pick the models you think are helpful)
- 2. Classify the data using a neural network model.
- 3. Define, evaluate and compare the performance of the above models for doing this text classification.
- 4. What if the text is unlabeled short sentence, would you still consider to use the above models and why?
- 5. What would be your solution to classify any new unlabeled text?

Notes:

- Useful link and reference: https://docs.cloud.databricks.com/docs/latest/sample_applications/07%20Sample%20ML/
 MLPipeline%20Newsgroup%20Dataset.html
- Please finish the exercise independently within 5 days.
- Submit your exercise (email to cheng.he@saymosaic.com) in a pdf or slides with necessary answers, graph and code.