Fake and real news Detection

Attached to this exercise, you can find two files: one for real news and one for fake news. Your task is to build a machine learning model that is capable of classifying articles as fake and real news. You are free to use any machine learning model you are comfortable with.

We are looking for the following:

- Being able to test different methods of feeding text data into a machine learning model.
- Some basic feature engineering based on the available data.
- Being able to do basic standard data pre-processing and text data manipulation.
- Being able to write very clear and structured code that can be easily understood and executed by others.

We expect you to submit the following as part of your solution:

- A fully working python project to achieve the above task (with a setup script).
- A report stating the following:
  - The accuracy achieved against a test set of your choice.
  - A brief explanation of your solution including reasons for your model of choice.
  - A description of any improvements you would have made given extra time.
  - Please also specify the amount of time you have spent designing your solution.

We intend to run your solution, so please give us an idea of setup, train and run time.