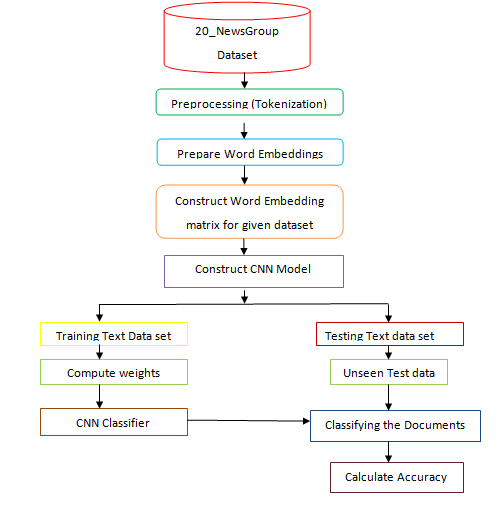
**Novelty**

In the exiting work “Naive bayes classifier” model had been applied over “20 News group Dataset” to classify the documents. The corresponding link given as follows.

**Link:** <https://www.academia.edu/36946681/Efficient_Text_Classification_of_20_Newsgroup_Dataset_using_Classification_Algorithm>

As part of implementation of present work which is titled as “**Text classification of 20 News Group Dataset using Deep learning approach**”, a deep learning model called Convolution neural network has been implemented. The corresponding model architecture is represented as follows.



**Experimental Details**

This experiment is conducted over 20 news group dataset. This dataset is having 20k files. These files are splitting into training and testing files. The training part contains 15998 files and remaining files(3999) are considered for testing phase. Finally this experiment yields following results.

**Training accuracy -95%**

**Testing accuracy-81%.**