I have followed Jeremy’s ULMFiT method here to first create a language model learner which understands how the language is used in such news articles. This model was able to predict next words in a sentence with an accuracy of about 30%. Ten percent of training data was used as validation set. The above model was created by fine tuning fastai’s pre-trained model on Wikipedia articles. Fine tuning the model by using fit\_one\_cycle method for some hours increased the accuracy by 20% to a total of then 45%. Then a RNN based classifier was made based on the above language model. Since the model was already able to understand the semantics of data pretty effectively, the initial accuracy of the classifier was around 50%. Then I trained the model for few more hours until over-fitting hadn’t started and was able to increase the accuracy to about 70%. Some categories were quite semantically similar and thus 70% sounded pretty state of the art at that time. Using [this](http://www.google.com) I was able to find a comparison of various libraries and frameworks (excluding fastai) for building a classifier on the same dataset and their maximum accuracy was around 66%.