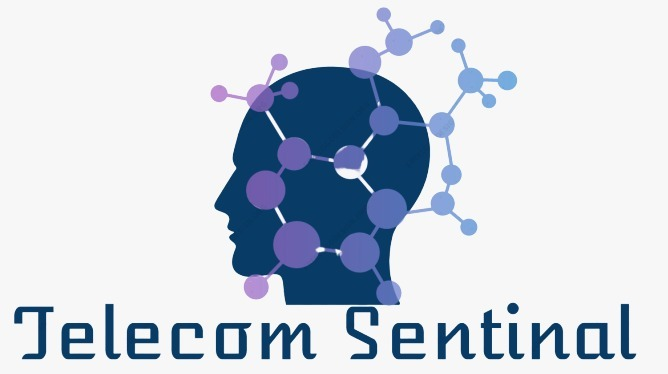
**User Guide**



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**Dependencies**

* Pandas
* sklearn
* tenserflow 1.13.1
* tenserflow-hub 0.7.2
* bert
* tensorflow keras 2.2.4
* requests
* pandasrequests
* numpy
* nltk
* pickle-mixin

**Application**

There is 2 ways of running the application, 1 way is to go to the URL [www.sentinal.ml](http://www.sentinal.ml) and can access the application.

2nd way, you can run the application locally.

* Download Sentinel-backend and Sentinel-frontend in Dashboard Folder.
* run app.py from each folder on separate cmd.
* Once both the front end and backend are in running state copy the URL from the frontend cmd and browse the url on browser.

**Training the Models**

There are 3 models used in the application, 2 models are for sentiment classification and 1 model is for chat intent detection.

* For building the model for sentiment classification using Bert run the BertModelForSentimentAnalysis.ipynb file on colab, if you don’t have GPU on your system. Otherwise run it on jupyter notebook
* For training model using fine tune Transformer, run Transfomer-FineTuning.ipynb from Transformer model folder on colab and upload train.csv and test.csv as well From Transformer Model folder.