```
import numpy as np
import pandas as pd
import tqdm, os, gc
```

```
# Keras utilities
from keras.models import Sequential, Model, load_model
from keras.layers import Input, Dense, Dropout, Activation, Conv1D, LSTM, GlobalMaxPooling1D, GlobalAveragePooling1D
from keras.callbacks import EarlyStopping, ModelCheckpoint
from keras.utils import np_utils, to_categorical
from keras.preprocessing import sequence, text, MultiFieldTokenizer, FieldVectorizer

from keras.layers.core import Lambda, Flatten
from keras.layers.wrapers import Bidirectional
from keras.layers.embeddings import Embedding
from keras.layers.recurrent import GRU
from keras.layers.convolutional import Convolution1D, MaxPooling1D, AveragePooling1D
from keras.layers.advanced_activations import PReLU, LeakyReLU, ThresholdedReLU, ELU
from keras.layers.normalization import BatchNormalization
from keras.layers.noise_layers.gaussian_noise import GaussianNoise
from keras.layers.noise_layers.gaussian_dropout import GaussianDropout

from keras.preprocessing.sequence import pad_sequences
from keras.preprocessing.text import Tokenizer, text_to_word_sequence
from keras.utils.np_utils import np_utils, to_categorical
from keras.utils.generic_utils import get_custom_objects
```

```
# Keras backend
import keras.backend as K
from keras.backend.tensorflow_backend import set_session
```

```
# Keras initializers
from keras.initializers import Orthogonal
```

```
# Keras optimizers
from keras.optimizers import Adam, Nadam, RMSprop
```

```
# Keras callbacks
from keras.callbacks import EarlyStopping, ReduceLROnPlateau, ModelCheckpoint
```

```
# Keras layers
from keras.layers.core import Dense, Dropout, Activation, Flatten, Reshape, Permute
from keras.layers.core import Lambda, Masking
from keras.layers.core import Dense_tied
```

```
# Keras models
from keras.models import Sequential, Model
```

```
# Keras utilities
from keras.utils.np_utils import np_utils, to_categorical
```

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{"id": 76, "name": "Alejandro", "surname": "Ramírez", "birthdate": "1991-02-14", "city": "Cali", "country": "Colombia", "phone": "+57 312 333 9999", "email": "alejandro.ramirez@mail.com", "company": "Valle Norte", "job": "Contador", "salary": 4000, "active": true, "publication_count": 15, "last_login": "2024-03-14T08:00:00", "notes": "Cierre mensual"},
{"id": 77, "name": "Alejandro", "surname": "Sánchez", "birthdate": "1989-08-05", "city": "Medellín", "country": "Colombia", "phone": "+57 304 111 2222", "email": "alejandro.sanchez@mail.com", "company": "Cafetera", "job": "Operador", "salary": 2700, "active": true, "publication_count": 2, "last_login": "2024-03-13T22:10:00", "notes": "Turno nocturno"},
{"id": 78, "name": "Alejandro", "surname": "Torres", "birthdate": "1994-11-30", "city": "Bogotá", "country": "Colombia", "phone": "+57 318 555 4444", "email": "alejandro.torres@mail.com", "company": "Tecnosur", "job": "Soporte", "salary": 3000, "active": false, "publication_count": 1, "last_login": "2021-12-01T09:00:00", "notes": null},
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{"id": 80, "name": "Alejandro", "surname": "Gómez", "birthdate": "1993-06-18", "city": "Bogotá", "country": "Colombia", "phone": "+57 311 777 0000", "email": "alejandro.gomez@mail.com", "company": "Tecnosur", "job": "Ingeniero de datos", "salary": 4100, "active": true, "publication_count": 9, "last_login": "2024-03-12T16:30:00", "notes": "Mentor de pasantes"},
{"id": 81, "name": "Alejandro", "surname": "Ramírez", "birthdate": "1988-04-12", "city": "Bogotá", "country": "Colombia", "phone": "+57 300 123 4567", "email": "alejandro.ramirez@mail.com", "company": "Tecnosur", "job": "Ingeniero de datos", "salary": 4200, "active": true, "publication_count": 12, "last_login": "2024-03-15T08:30:00", "notes": "Prefiere reuniones por la mañana"},
{"id": 82, "name": "Alejandro", "surname": "Sánchez", "birthdate": "1990-07-03", "city": "Medellín", "country": "Colombia", "phone": "+57 310 987 6543", "email": "alejandro.sanchez@mail.com", "company": "Cafetera", "job": "Diseñadora", "salary": 3800, "active": false, "publication_count": 5, "last_login": "2023-11-02T14:00:00", "notes": "Vacaciones en diciembre"},
{"id": 83, "name": "Alejandro", "surname": "Torres", "birthdate": "1985-12-28", "city": "Cali", "country": "Colombia", "phone": "+57 320 555 0101", "email": "alejandro.torres@mail.com", "company": "Valle Norte", "job": "Gerente", "salary": 6500, "active": true, "publication_count": 0, "last_login": "2024-01-09T09:15:00", "notes": null},
{"id": 84, "name": "Alejandro", "surname": "Gómez", "birthdate": "1992-05-17", "city": "Bogotá", "country": "Colombia", "phone": "+57 301 222 8888", "email": "alejandro.gomez@mail.com", "company": "Tecnosur", "job": "Analista", "salary": 3500, "active": true, "publication_count": 8, "last_login": "2024-02-28T17:45:00", "notes": "Turno rotativo"},
{"id": 85, "name": "Alejandro", "surname": "Vargas", "birthdate": "1987-09-21", "city": "Barranquilla", "country": "Colombia", "phone": "+57 315 444 7777", "email": "alejandro.vargas@mail.com", "company": "Costa Azul", "job": "Vendedor", "salary": 2900, "active": false, "publication_count": 3, "last_login": "2022-06-30T11:20:00", "notes": "Licencia hasta enero"},
{"id": 86, "name": "Alejandro", "surname": "Ramírez", "birthdate": "1991-02-14", "city": "Cali", "country": "Colombia", "phone": "+57 312 333 9999", "email": "alejandro.ramirez@mail.com", "company": "Valle Norte", "job": "Contador", "salary": 4000, "active": true, "publication_count": 15, "last_login": "2024-03-14T08:00:00", "notes": "Cierre mensual"},
{"id": 87, "name": "Alejandro", "surname": "Sánchez", "birthdate": "1989-08-05", "city": "Medellín", "country": "Colombia", "phone": "+57 304 111 2222", "email": "alejandro.sanchez@mail.com", "company": "Cafetera", "job": "Operador", "salary": 2700, "active": true, "publication_count": 2, "last_login": "2024-03-13T22:10:00", "notes": "Turno nocturno"},
{"id": 88, "name": "Alejandro", "surname": "Torres", "birthdate": "1994-11-30", "city": "Bogotá", "country": "Colombia", "phone": "+57 318 555 4444", "email": "alejandro.torres@mail.com", "company": "Tecnosur", "job": "Soporte", "salary": 3000, "active": false, "publication_count": 1, "last_login": "2021-12-01T09:00:00", "notes": null},
{"id": 89, "name": "Alejandro", "surname": "Vargas", "birthdate": "1986-03-09", "city": "Barranquilla", "country": "Colombia", "phone": "+57 305 666 8888", "email": "alejandro.vargas@mail.com", "company": "Costa Azul", "job": "Director", "salary": 7200, "active": true, "publication_count": 20, "last_login": "2024-03-15T07:45:00", "notes": "Reporta a junta"},
{"id": 90, "name": "Alejandro", "surname": "Gómez", "birthdate": "1993-06-18", "city": "Bogotá", "country": "Colombia", "phone": "+57 311 777 0000", "email": "alejandro.gomez@mail.com", "company": "Tecnosur", "job": "Ingeniero de datos", "salary": 4100, "active": true, "publication_count": 9, "last_login": "2024-03-12T16:30:00", "notes": "Mentor de pasantes"},
{"id": 91, "name": "Alejandro", "surname": "Ramírez", "birthdate": "1988-04-12", "city": "Bogotá", "country": "Colombia", "phone": "+57 300 123 4567", "email": "alejandro.ramirez@mail.com", "company": "Tecnosur", "job": "Ingeniero de datos", "salary": 4200, "active": true, "publication_count": 12, "last_login": "2024-03-15T08:30:00", "notes": "Prefiere reuniones por la mañana"},
{"id": 92, "name": "Alejandro", "surname": "Sánchez", "birthdate": "1990-07-03", "city": "Medellín", "country": "Colombia", "phone": "+57 310 987 6543", "email": "alejandro.sanchez@mail.com", "company": "Cafetera", "job": "Diseñadora", "salary": 3800, "active": false, "publication_count": 5, "last_login": "2023-11-02T14:00:00", "notes": "Vacaciones en diciembre"},
{"id": 93, "name": "Alejandro", "surname": "Torres", "birthdate": "1985-12-28", "city": "Cali", "country": "Colombia", "phone": "+57 320 555 0101", "email": "alejandro.torres@mail.com", "company": "Valle Norte", "job": "Gerente", "salary": 6500, "active": true, "publication_count": 0, "last_login": "2024-01-09T09:15:00", "notes": null},
{"id": 94, "name": "Alejandro", "surname": "Gómez", "birthdate": "1992-05-17", "city": "Bogotá", "country": "Colombia", "phone": "+57 301 222 8888", "email": "alejandro.gomez@mail.com", "company": "Tecnosur", "job": "Analista", "salary": 3500, "active": true, "publication_count": 8, "last_login": "2024-02-28T17:45:00", "notes": "Turno rotativo"},
{"id": 95, "name": "Alejandro", "surname": "Vargas", "birthdate": "1987-09-21", "
```

```
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```
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```

Modeling Iterations

Baseline Gaming

```
In [1]: %load_ext dotenv
In [2]: %dotenv
In [3]: %cd ~/data/kaggle/nlp-getting-started
/home/jovyan/data/kaggle/nlp-getting-started
In [4]: !ls -lhtr *.csv
-rw-r--r-- 1 jovyan users 1.4M Feb 13 18:03 train.csv
-rw-r--r-- 1 jovyan users 1.0M Feb 13 18:03 test.csv
-rw-r--r-- 1 jovyan users 33K Feb 13 18:03 sample_submission.csv
In [5]: !head -n 2 train.csv
id,keyword,location,text,target
1,,,Our Deeds are the Reason of this #earthquake May ALLAH Forgive us all,1
In [6]: !head -n 2 test.csv
id,keyword,location,text
0,,,Just happened a terrible car crash
In [7]: !head -n 2 sample_submission.csv
id,target
0,0
In [8]: !pip install -q -U keras-bert keras-rectified-adam
In [9]: !pip install -q -U tensorflow-addons
In [10]: !pip install -q -U transformers
In [11]: !pip install -q -U tensorflow-text
In [12]: !pip install -q -U bqplot ipywidgets jupyterlab_widgets
In [13]: !jupyter labextension install --no-build jupyterlab-manager
In [14]: !jupyter labextension install --no-build bqplot
In [15]: !jupyter labextension install --no-build jupyterlab-dtale
In [16]: !jupyter lab build --dev-build=False --minimize=False
In [17]: !jupyter lab --version
3.0.14
In [18]: !jupyter kernelspec list
Available kernels:
  python3    /opt/conda/share/jupyter/kernels/python3
In [19]: !cat /opt/conda/share/jupyter/kernels/python3/kernel.json
{
 "argv": [
  "/opt/conda/bin/python",
  "-m",
  "ipykernel_launcher",
  "-f",
  "{connection_file}"
 ],
 "display_name": "Python 3",
 "language": "python",
 "metadata": {
  "debugger": true
 }
}
In [20]: !ipcs -lsm
------ Semaphore limits --------
max number of arrays = 128
max semaphores per array = 250
max semaphores system wide = 32000
max ops per semaphore call = 32
semaphore max value = 32767
In [21]: !df -h /dev/shm
Filesystem      Size  Used Avail Use% Mounted on
shm             64M     0   64M   0% /dev/shm
In [22]: !mkdir -p /dev/shm/$USER
In [23]: !df -h /dev/shm
Filesystem      Size  Used Avail Use% Mounted on
shm             64M     0   64M   0% /dev/shm
In [24]: !ln -s /dev/shm/$USER .
In [25]: !ln -s /dev/shm/$USER .
In [26]: !ln -s /dev/shm/$USER .
In [27]: !ln -s /dev/shm/$USER .
In [28]: !ln -s /dev/shm/$USER .
In [29]: !ln -s /dev/shm/$USER .
In
```

```
[In]: MLP_clf.fit(X_train,y_train)
```

```
[Out]: MLPClassifier(activation='relu',alpha=0.1,beta_1=0.9,
       beta_2=0.999,batch_size='auto',early_stopping=False,
       epsilon=1e-08,hidden_layer_sizes=(100,),learning_rate='constant',
       learning_rate_init=0.001,max_fun=15000,max_iter=200,momentum=0.9,
       nesterovs_momentum=True,power_t=0.5,random_state=None,shuffle=True,
       solver='adam',tol=0.0001,validation_fraction=0.1,verbose=False,
       warm_start=False)
```

```
[In]: Evaluate_model(MLP_clf,X_test,y_test,'Neural Network')
```

```
[Out]: Neural Network Accuracy: 0.9666666666666667
       Neural Network Confusion Matrix
       [[ 9  0  0]
        [ 0 11  1]
        [ 0  0 9]]
       Neural Network Classification Report
                    precision    recall  f1-score   support

               0       1.00      1.00      1.00         9
               1       1.00      0.92      0.96        12
               2       0.90      1.00      0.95         9

       avg / total       0.97      0.97      0.97        30
```

```
[In]: MLP_clf_CV.fit(X_train,y_train)
```

```
[Out]: GridSearchCV(cv=None,error_score=nan,
       estimator=MLPClassifier(activation='relu',alpha=0.1,beta_1=0.9,
       beta_2=0.999,batch_size='auto',early_stopping=False,
       epsilon=1e-08,hidden_layer_sizes=(100,),learning_rate='constant',
       learning_rate_init=0.001,max_fun=15000,max_iter=200,momentum=0.9,
       nesterovs_momentum=True,power_t=0.5,random_state=None,shuffle=True,
       solver='adam',tol=0.0001,validation_fraction=0.1,verbose=False,
       warm_start=False),
       iid=True,n_jobs=1,param_grid=[{'hidden_layer_sizes': [(50,), (100,)],
       'activation': ['relu', 'tanh'], 'solver': ['sgd', 'adam'],
       'alpha': [0.0001, 0.05], 'learning_rate': ['constant', 'adaptive'],
       'max_iter': [200, 500]}],pre_dispatch='2*n_jobs',refit=True,
       scoring=None,verbose=0)
```

```
[In]: Evaluate_model(MLP_clf_CV,X_test,y_test,'Tuned Neural Network')
```

```
[Out]: Tuned Neural Network Accuracy: 0.9666666666666667
       Tuned Neural Network Confusion Matrix
       [[ 9  0  0]
        [ 0 11  1]
        [ 0  0 9]]
       Tuned Neural Network Classification Report
                    precision    recall  f1-score   support

               0       1.00      1.00      1.00         9
               1       1.00      0.92      0.96        12
               2       0.90      1.00      0.95         9

       avg / total       0.97      0.97      0.97        30
```

Tuned Logistic Regression

```
[In]: Logreg_clf_CV=GridSearchCV(estimator=Logreg,
      param_grid={'C':[0.01,0.09,0.1,0.5,0.9,1],'solver':['newton-cg','lbfgs','liblinear'],'multi_class':['ovr','multinomial'],
      'max_iter':[100,200,300],'tol':[0.0001,0.0002,0.0003]},cv=5,verbose=0,n_jobs=-1)
```

```
[In]: Logreg_clf_CV.fit(X_train,y_train)
```

```
[Out]: GridSearchCV(cv=5,error_score=nan,
       estimator=LogisticRegression(C=1.0,class_weight=None,dual=False,
       fit_intercept=True,intercept_scaling=1,l1_ratio=None,max_iter=100,
       multi_class='ovr',n_jobs=1,penalty='l2',random_state=None,solver='liblinear',
       tol=0.0001,verbose=0,warm_start=False),
       iid=True,n_jobs=-1,param_grid={'C': [0.01, 0.09, 0.1, 0.5, 0.9, 1],
       'solver': ['newton-cg', 'lbfgs', 'liblinear'],
       'multi_class': ['ovr', 'multinomial'],
       'max_iter': [100, 200, 300],
       'tol': [0.0001, 0.0002, 0.0003]},pre_dispatch='2*n_jobs',refit=True,
       scoring=None,verbose=0)
```

```
[In]: Logreg_clf_CV.best_params_
```

```
[Out]: {'C': 0.9,
        'max_iter': 100,
        'multi_class': 'ovr',
        'solver': 'newton-cg',
        'tol': 0.0001}
```

```
[In]: Evaluate_model(Logreg_clf_CV,X_test,y_test,'Tuned Logistic Regression')
```

```
[Out]: Tuned Logistic Regression Accuracy: 0.9666666666666667
       Tuned Logistic Regression Confusion Matrix
       [[ 9  0  0]
        [ 0 11  1]
        [ 0  0 9]]
       Tuned Logistic Regression Classification Report
                    precision    recall  f1-score   support

               0       1.00      1.00      1.00         9
               1       1.00      0.92      0.96        12
               2       0.90      1.00      0.95         9

       avg / total       0.97      0.97      0.97        30
```

	Model	Cross_accuracy	CVS_accuracy	Test_accuracy	CVS_precision	Test_precision	Cross_recall	CVS_recall	Test_recall	CVS_F1	Test_F1	Comments
0	Naive Bayes	0.9416667	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	
1	Logistic_CV	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned Logistic Regression
2	Logistic_Reg	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Logistic Regression
3	Neural_Net	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Neural Network
4	Neural_Net_CV	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned Neural Network

Tuned Support Vector Machine

```
[In]: SVM_clf_CV=GridSearchCV(estimator=SVM,
      param_grid={'C':[0.01,0.09,0.1,0.5,0.9,1],'kernel':['linear','rbf'],'gamma':[0.01,0.09,0.1,0.5,0.9,1],
      'decision_function_shape':['ovr','multinomial'],'max_iter':[100,200,300],'tol':[0.0001,0.0002,0.0003]},cv=5,verbose=0,n_jobs=-1)
```

```
[In]: SVM_clf_CV.fit(X_train,y_train)
```

```
[Out]: GridSearchCV(cv=5,error_score=nan,
       estimator=SVC(C=1.0,cache_size=200,class_weight=None,coef0=0.0,
       decision_function_shape='ovr',degree=3,gamma='auto',kernel='rbf',
       max_iter=-1,probability=False,random_state=None,shrinking=True,
       tol=0.001,verbose=False),
       iid=True,n_jobs=-1,param_grid={'C': [0.01, 0.09, 0.1, 0.5, 0.9, 1],
       'kernel': ['linear', 'rbf'],
       'gamma': [0.01, 0.09, 0.1, 0.5, 0.9, 1],
       'decision_function_shape': ['ovr', 'multinomial'],
       'max_iter': [100, 200, 300],
       'tol': [0.0001, 0.0002, 0.0003]},pre_dispatch='2*n_jobs',refit=True,
       scoring=None,verbose=0)
```

```
[In]: SVM_clf_CV.best_params_
```

```
[Out]: {'C': 0.9,
        'decision_function_shape': 'ovr',
        'gamma': 0.01,
        'kernel': 'linear',
        'max_iter': 100,
        'tol': 0.0001}
```

```
[In]: Evaluate_model(SVM_clf_CV,X_test,y_test,'Tuned SVM')
```

```
[Out]: Tuned SVM Accuracy: 0.9666666666666667
       Tuned SVM Confusion Matrix
       [[ 9  0  0]
        [ 0 11  1]
        [ 0  0 9]]
       Tuned SVM Classification Report
                    precision    recall  f1-score   support

               0       1.00      1.00      1.00         9
               1       1.00      0.92      0.96        12
               2       0.90      1.00      0.95         9

       avg / total       0.97      0.97      0.97        30
```

	Model	Cross_accuracy	CVS_accuracy	Test_accuracy	CVS_precision	Test_precision	Cross_recall	CVS_recall	Test_recall	CVS_F1	Test_F1	Comments
0	Naive_Bayes	0.9416667	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	
1	Logistic_CV	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned Logistic Regression
2	Logistic_Reg	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Logistic Regression
3	Neural_Net	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Neural Network
4	Neural_Net_CV	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned Neural Network
5	Tuned_LogReg	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned Logistic Regression
6	Tuned_SVM	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned SVM

Naive Bayes Classifier

```
[In]: Naive_Bayes_clf = MultinomialNB()
```

```
[In]: Naive_Bayes_clf.fit(X_train,y_train)
```

```
[Out]: MultinomialNB(alpha=1.0,class_prior=None,fit_prior=True)
```

```
[In]: Evaluate_model(Naive_Bayes_clf,X_test,y_test,'Naive Bayes')
```

```
[Out]: Naive Bayes Accuracy: 0.9333333333333333
       Naive Bayes Confusion Matrix
       [[ 9  0  0]
        [ 0 11  1]
        [ 0  0 8]]
       Naive Bayes Classification Report
                    precision    recall  f1-score   support

               0       1.00      1.00      1.00         9
               1       1.00      0.92      0.96        12
               2       0.89      1.00      0.94         8

       avg / total       0.97      0.93      0.93        29
```

	Model	Cross_accuracy	CVS_accuracy	Test_accuracy	CVS_precision	Test_precision	Cross_recall	CVS_recall	Test_recall	CVS_F1	Test_F1	Comments
0	Naive_Bayes	0.9416667	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	
1	Logistic_CV	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned Logistic Regression
2	Logistic_Reg	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Logistic Regression
3	Neural_Net	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Neural Network
4	Neural_Net_CV	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned Neural Network
5	Tuned_LogReg	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned Logistic Regression
6	Tuned_SVM	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned SVM
7	Naive_Bayes	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	Naive Bayes

Tuned Complement Bayes

```
[In]: Tuned_Comp_Bayes_clf=ComplementNB(alpha=0.1,class_prior=None,fit_prior=False,norm=False)
      Tuned_Comp_Bayes_clf.fit(X_train,y_train)
      Evaluate_model(Tuned_Comp_Bayes_clf,X_test,y_test,'Tuned Complement Naive Bayes')
```

```
[Out]: Tuned Complement Naive Bayes Accuracy: 0.9666666666666667
       Tuned Complement Naive Bayes Confusion Matrix
       [[ 9  0  0]
        [ 0 11  1]
        [ 0  0 9]]
       Tuned Complement Naive Bayes Classification Report
                    precision    recall  f1-score   support

               0       1.00      1.00      1.00         9
               1       1.00      0.92      0.96        12
               2       0.90      1.00      0.95         9

       avg / total       0.97      0.97      0.97        30
```

	Model	Cross_accuracy	CVS_accuracy	Test_accuracy	CVS_precision	Test_precision	Cross_recall	CVS_recall	Test_recall	CVS_F1	Test_F1	Comments
0	Naive_Bayes	0.9416667	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	
1	Logistic_CV	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned Logistic Regression
2	Logistic_Reg	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Logistic Regression
3	Neural_Net	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Neural Network
4	Neural_Net_CV	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned Neural Network
5	Tuned_LogReg	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned Logistic Regression
6	Tuned_SVM	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned SVM
7	Naive_Bayes	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	Naive Bayes
8	Tuned_Comp_Bayes	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned Complement Naive Bayes

Baseline Random Forest Classifier

```
[In]: Random_Forest_clf = RandomForestClassifier(n_estimators=10,criterion='gini',max_depth=None,min_samples_split=2,min_samples_leaf=1,
      min_weight_fraction_leaf=0.0,max_features='auto',max_leaf_nodes=None,min_impurity_decrease=0.0,min_impurity_split=None,
      bootstrap=True,oob_score=False,n_jobs=1,random_state=None,verbose=0,warm_start=False,class_weight=None)
```

```
[In]: Random_Forest_clf.fit(X_train,y_train)
```

```
[Out]: RandomForestClassifier(bootstrap=True,class_weight=None,criterion='gini',
       max_depth=None,max_features='auto',max_leaf_nodes=None,
       min_impurity_decrease=0.0,min_impurity_split=None,
       min_samples_leaf=1,min_samples_split=2,
       min_weight_fraction_leaf=0.0,n_estimators=10,n_jobs=1,oob_score=False,
       random_state=None,verbose=0,warm_start=False)
```

```
[In]: Evaluate_model(Random_Forest_clf,X_test,y_test,'Random Forest')
```

```
[Out]: Random Forest Accuracy: 0.9333333333333333
       Random Forest Confusion Matrix
       [[ 9  0  0]
        [ 0 11  1]
        [ 0  0 8]]
       Random Forest Classification Report
                    precision    recall  f1-score   support

               0       1.00      1.00      1.00         9
               1       1.00      0.92      0.96        12
               2       0.89      1.00      0.94         8

       avg / total       0.97      0.93      0.93        29
```

	Model	Cross_accuracy	CVS_accuracy	Test_accuracy	CVS_precision	Test_precision	Cross_recall	CVS_recall	Test_recall	CVS_F1	Test_F1	Comments
0	Naive_Bayes	0.9416667	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	
1	Logistic_CV	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned Logistic Regression
2	Logistic_Reg	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Logistic Regression
3	Neural_Net	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Neural Network
4	Neural_Net_CV	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned Neural Network
5	Tuned_LogReg	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned Logistic Regression
6	Tuned_SVM	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned SVM
7	Naive_Bayes	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	Naive Bayes
8	Tuned_Comp_Bayes	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned Complement Naive Bayes
9	Random_Forest	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	Random Forest

Tuned Random Forest

```
[In]: Tuned_Random_Forest_clf=RandomForestClassifier(n_estimators=300,criterion='entropy',max_depth=None,min_samples_split=2,min_samples_leaf=1,
      min_weight_fraction_leaf=0.0,max_features='auto',max_leaf_nodes=None,min_impurity_decrease=0.0,min_impurity_split=None,
      bootstrap=True,oob_score=False,n_jobs=1,random_state=None,verbose=0,warm_start=False,class_weight=None)
```

```
[In]: Tuned_Random_Forest_clf.fit(X_train,y_train)
```

```
[Out]: RandomForestClassifier(bootstrap=True,class_weight=None,criterion='entropy',
       max_depth=None,max_features='auto',max_leaf_nodes=None,
       min_impurity_decrease=0.0,min_impurity_split=None,
       min_samples_leaf=1,min_samples_split=2,
       min_weight_fraction_leaf=0.0,n_estimators=300,n_jobs=1,oob_score=False,
       random_state=None,verbose=0,warm_start=False)
```

```
[In]: Evaluate_model(Tuned_Random_Forest_clf,X_test,y_test,'Tuned Random Forest')
```

```
[Out]: Tuned Random Forest Accuracy: 0.9666666666666667
       Tuned Random Forest Confusion Matrix
       [[ 9  0  0]
        [ 0 11  1]
        [ 0  0 9]]
       Tuned Random Forest Classification Report
                    precision    recall  f1-score   support

               0       1.00      1.00      1.00         9
               1       1.00      0.92      0.96        12
               2       0.90      1.00      0.95         9

       avg / total       0.97      0.97      0.97        30
```

	Model	Cross_accuracy	CVS_accuracy	Test_accuracy	CVS_precision	Test_precision	Cross_recall	CVS_recall	Test_recall	CVS_F1	Test_F1	Comments
0	Naive_Bayes	0.9416667	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	
1	Logistic_CV	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned Logistic Regression
2	Logistic_Reg	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Logistic Regression
3	Neural_Net	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Neural Network
4	Neural_Net_CV	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned Neural Network
5	Tuned_LogReg	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned Logistic Regression
6	Tuned_SVM	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned SVM
7	Naive_Bayes	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	Naive Bayes
8	Tuned_Comp_Bayes	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned Complement Naive Bayes
9	Random_Forest	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	0.9333333	Random Forest
10	Tuned_Random_Forest	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	0.9666667	Tuned Random Forest

Additional Negative Examples

Once we are satisfied with all the models, we can plot the additional negative based on a suspicious text message.

Text Processing

```
[In]: SMS_df.loc[4000:4010,'Text']
```

```
[Out]: 4000    Dear Dr Bk I hope everything finest.Like wise i'm fine.Tell Mom,Dad,Jaya,Jai.Take care.Love,Chinnu.JPEG.Message Rejected.Will Contact Customer Care.Your Ringtone Subscription Has Been Successfully Activated.Your Ringtone Subscription Has Been Successfully Activated.Your Ringtone Subscription Has Been Successfully Activated
```

```
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```
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```

```
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```

{"Aaron": "Aaron", "Abaddon": "Abaddon", "Abel": "Abel", "Abigail": "Abigail", "Abner": "Abner", "Abraham": "Abraham", "Absalom": "Absalom", "Adam": "Adam", "Adonijah": "Adonijah", "Adonis": "Adonis", "Adrian": "Adrian", "Adrianne": "Adrianne", "Agnes": "Agnes", "Agnus": "Agnus", "Ahab": "Ahab", "Ahaz": "Ahaz", "Ahaziah": "Ahaziah", "Ahmed": "Ahmed", "Ahmet": "Ahmet", "Ahmose": "Ahmose", "Aiden": "Aiden", "Aidan": "Aidan", "Aimee": "Aimee", "Aisha": "Aisha", "Akhenaten": "Akhenaten", "Akhenaton": "Akhenaton", "Akhenaton": "Akhenaton", "Akhenaton": "Akhenaton

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["Aaron", "Abaca", "Abaca", "Abaca", "Abaca", "Abaca", "Abandoned", "Abbot", "Abbot", "Abbot

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```

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{"name": "Abdiel", "gender": "M", "usage": "Biblical", "rank": 2},
{"name": "Abdon", "gender": "M", "usage": "Biblical", "rank": 3},
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{"name": "Abner", "gender": "M", "usage": "Biblical", "rank": 6},
{"name": "Abraham", "gender": "M", "usage": "Israel", "rank": 7},
{"name": "Adam", "gender": "M", "usage": "Biblical", "rank": 8},
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{"name": "Ahimelekh", "gender": "M", "usage": "Biblical", "rank": 20},
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```
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```

```
{"Aaronsburg","Abbottstown","Adamstown","Adams","Adamsville","Addison","Adelphia","Adena","Adrian","Afton","Agnes","Agnew","Ahoskie","Ainsworth","Airville","Akron","Alabama","Alaska","Albany","Albion","Alcoa","Alcolu","Alcorn","Alcova","Alder","Alexander","Alexandria","Alfred","Algoma","Alice","Alicia","Alma","Almeda","Almena","Alpha","Alpine","Alsea","Alsip","Altamont","Altamonte","Altamont","Altamont","Altamont
```

```
[{"Frequency": "Frequent", "Frequency": "Frequent", "Frequency": "Frequent", "
```

```
{"Aaron": "Aaron", "Abaddon": "Abaddon", "Abel": "Abel", "Abiah": "Abiah", "Abiathar": "Abiathar", "Abigail": "Abigail", "Abijah": "Abijah", "Abimelech": "Abimelech", "Abner": "Abner", "Abraham": "Abraham", "Absalom": "Absalom", "Achan": "Achan", "Achish": "Achish", "Adam": "Adam", "Adbeel": "Adbeel", "Adbeel": "Adbeel", "Adbeel": "Adbeel
```

```
{"Tweet": {"Tweet": {"Tweet": {
```

```
# Plot the sentiment distribution
plt.figure(figure=None, facecolor='w')
ax = df['sentiment_additional'].value_counts().plot(kind='bar', rot=0)
ax.set_title('Tweet Sentiment After Additional Negative Tweets')
ax.set_xlabel('Sentiment Tweets Brief')
ax.set_ylabel('Number of Tweets')
ax.set_xticklabels(['Positive/Neutral', 'Negative'])
plt.show()
```

```
# Save the dataset
df.to_csv('sentiment_data')
```

```
[nltk_data] Downloading package stopwords to /root/nltk_data...
[nltk_data]   Unzipping corpus/stopwords.zip.
```

```
[nltk_data] Downloading package punkt to /root/nltk_data...
[nltk_data]   Unzipping tokenizers/punkt.zip.
```

```
[nltk_data] Downloading package wordnet to /root/nltk_data...
[nltk_data]   Unzipping corpus/wordnet.zip.
```

Train/Test/Split

```
# Define the features and target variable
X = df['cleaned_text']
y = df['sentiment']

# Split the data into training and testing sets
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
```

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Tajik(Tg) 1.00%
Tamil(Ta) 1.00%
Tatar(Tt) 1.00%
Telugu(Te) 1.00%
Thai(Th) 1.00%
Tigrinya(Ti) 1.00%
Tok Pisin(Tpi) 1.00%
Tongan(To) 1.00%
Turkish(Tr) 1.00%
Turkmen(Tk) 1.00%
Tuvinian(Tyv) 1.00%
Twi(Tw) 1.00%
Udmurt(Udm) 1.00%
Uighur(Ug) 1.00%
Ukrainian(Uk) 1.00%
Urdu(Ur) 1.00%
Uzbek(Uz) 1.00%
Vietnamese(Vi) 1.00%
Volapuk(Vo) 1.00%
Wolof(Wo) 1.00%
Xhosa(Xh) 1.00%
Yakut(Sah) 1.00%
Yiddish(Yi) 1.00%
Yoruba(Yo) 1.00%
Zhuang(Za) 1.00%
Zulu(Zu) 1.00%
Abkhazian(Ab) 0.99%
Afrikaans(Af) 0.99%
Aymara(Ay) 0.99%
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/home/jovyan/.local/lib/python3.7/site-packages/sklearn/linear_model/_logistic.py:764: ConvergenceWarning: lbfgs failed to converge (status=1):
STOP: TOTAL NO. of ITERATIONS REACHED LIMIT.

Increase the number of iterations (max_iter) or scale the data as shown in:
    https://scikit-learn.org/stable/modules/preprocessing.html
Please also refer to the documentation for alternative ml solvers.
    https://scikit-learn.org/stable/linear_model.html#logistic-regression
  extra_warning_msg = _LOGISTIC_SOLVER_CONVERGENCE_MSG,
```