Financial Market News - Sentiment Analysis

Import Library

```
import pandas as pd
import numpy as np
```

Import Dataset

```
df = Pd.read_csv(r'https://github.com/YBI-Foundation/Dataset/raw/main/Financial%20

df.head()

df.shape

df.columns
```

Get Feature Selection

```
' '.join(str(x) for x in df.iloc[1,2;27])

df.index

len(df.index)

news = []

type(news)

news[0]

x = news

type(x)
```

Get Feature Text Conversion Bag Words

```
from sklearn.feature_extraction.text import CountVectorizer

cv = CountVectorizer(lowercase = True, ngram_range=(1,1))

x.shape

y = df['Label']

y.shape
```

Get Train Test Split

```
from sklearn.model_selection import train_test_split

x_train, x_test, y_train, y_test = train_test_split(X,y,test_size = 0.3, stratify = y, random_
from sklearn.ensemble import RandomForestClassifier

rf = RandomForestClassifier(n_estimators=200)

rf.fit(X_tain, y_train)

y_pred = rf.predict(x_test)

from sklearn.metrics import classification_report,confusion_matrix,accuracy_score

confusion_matrix(y_test,y_pred)

print(classification_report(y_test, y_pred))
```