# Sentiment Analysis using GRU

```
Importing the required libraries
```

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt

from keras.datasets import imdb
from keras.utils import pad_sequences
from keras.models import Sequential
from keras.layers import GRU, Embedding, Dense, Dropout
```

### Set hyperparameters

#### Load the IMDB dataset

#### Pad sequences to the same length

```
X_train = pad_sequences(X_train, maxlen=MAXLEN)
X_test = pad_sequences(X_test, maxlen=MAXLEN)
```

# Define the model

```
model = Sequential()
model.add(Embedding(input_dim=MAX_FEATURES, output_dim=128, input_length=MAXLEN))
model.add(GRU(units=64, dropout=0.2, recurrent_dropout=0.2))

Saving...

Saving...

Il not use cuDNN kernels since it doesn't meet the criteria. It will use a generic GPU kernel as fal
```

### Compile the model

```
model.compile(loss='binary_crossentropy', optimizer='adam', metrics=['accuracy'])
```

# Train the model

### Evaluate the model on test data