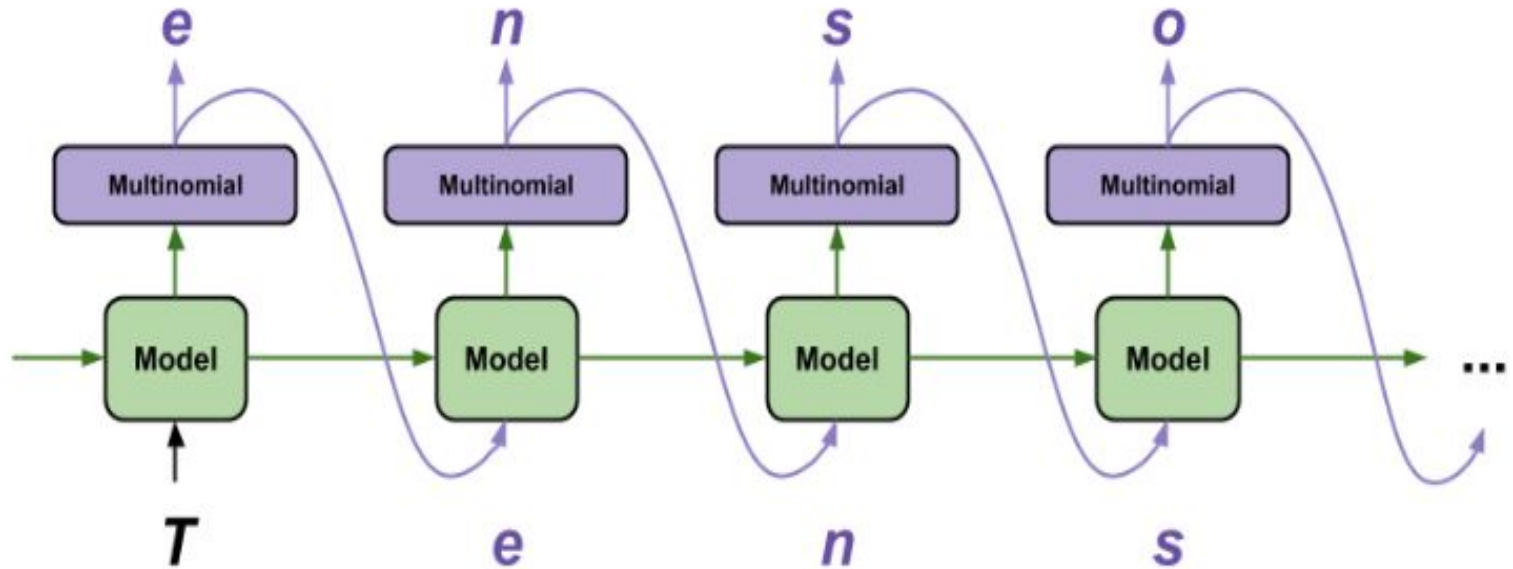




English News Text Generation

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Code Block Generate The Text





OutPuts

```
In [20]: runfile('D:/Python\ 's Project/LSTM RNN/LSTM RNN/  
BanglaTextGenaretion.py', wdir='D:/Python\ 's Project/LSTM RNN/LSTM  
RNN')
```

Length of text: 1115394 characters

```
In [21]: runfile('D:/Python\ 's Project/LSTM RNN/LSTM RNN/  
BanglaTextGenaretion.py', wdir='D:/Python\ 's Project/LSTM RNN/LSTM  
RNN')
```

Length of text: 1115394 characters

First Citizen:

Before we proceed any further, hear me speak.

All:

Speak, speak.

First Citizen:

You are all resolved rather to die than to famish?

All:

Resolved. resolved.

First Citizen:

First, you know Caius Marcius is chief enemy to the people.

Outputs

65 unique characters

```
{
  '\n': 0,
  '!': 1,
  '!': 2,
  '$': 3,
  '&': 4,
  '"': 5,
  ',': 6,
  '-': 7,
  '.': 8,
  '3': 9,
  ':': 10,
  ';': 11,
  '?': 12,
  'A': 13,
  'B': 14,
  'C': 15,
  'D': 16,
  'E': 17,
  'F': 18,
  'G': 19,
  ...
}
'First Citizen' ---- characters mapped to int ---- > [18 47 56 57 58
1 15 47 58 47 64 43 52]
```

Unique Charecter



Outputs

```
J
'First Citizen' ---- characters mapped to int ---- > [18 47 56 57 58
1 15 47 58 47 64 43 52]
F
i
r
s
t

```

Training Example

Outputs

```
Input data: 'First Citizen:\nBefore we proceed any further, hear me
speak.\n\nAll:\nSpeak, speak.\n\nFirst Citizen:\nYou'
Target data: 'irst Citizen:\nBefore we proceed any further, hear me
speak.\n\nAll:\nSpeak, speak.\n\nFirst Citizen:\nYou '
```

Step 0
input: 18 ('F')
expected output: 47 ('i')

Step 1
input: 47 ('i')
expected output: 56 ('r')

Step 2
input: 56 ('r')
expected output: 57 ('s')

Step 3
input: 57 ('s')
expected output: 58 ('t')

Step 4
input: 58 ('t')
expected output: 1 (' ')

Outputs

```
scalar_loss:          4.174212
Epoch 1/10
172/172 [=====] - 102s 594ms/step - loss: 2.6910
Epoch 2/10
172/172 [=====] - 99s 578ms/step - loss: 1.9849
Epoch 3/10
172/172 [=====] - 98s 570ms/step - loss: 1.7107
Epoch 4/10
172/172 [=====] - 98s 570ms/step - loss: 1.5575
Epoch 5/10
172/172 [=====] - 98s 570ms/step - loss: 1.4651
Epoch 6/10
172/172 [=====] - 98s 571ms/step - loss: 1.4036
Epoch 7/10
172/172 [=====] - 98s 572ms/step - loss: 1.3575
Epoch 8/10
172/172 [=====] - 99s 574ms/step - loss: 1.3172
Epoch 9/10
172/172 [=====] - 99s 573ms/step - loss: 1.2815
```

Training Model

Outputs

Epoch 10/10
172/172 [=====] - 98s 570ms/step - loss:
1.2445
Model: "sequential_9"

Layer (type)	Output Shape	Param #
embedding_9 (Embedding)	(1, None, 256)	16640
gru_9 (GRU)	(1, None, 1024)	3938304
dense_9 (Dense)	(1, None, 65)	66625
Total params: 4,021,569		
Trainable params: 4,021,569		
Non-trainable params: 0		

ROMEO: Right!

ROMEO:
Saying.

Outputs

QUEEN ELIZABETH:

What fear you which he an;
And so wast my senden bleeds in wind,
Or did no suitor and rest!
As I have had continue and pluck what did nigh,
And Rosalines of youghts, the humm't poor anopher,
Hath bloody gracious very well-melted by the store.

CALIBAN:

Is if thine eyes of estemperited
To give find corse this deep instruct one from our enemies?

AUTOMYCUS:

A bloody reverence! ho, you are city, by his hands and relishness
bept
He pity to you? who knows much better in heavate,
While let my good enemyew. Signior Baptist,
God prepare the lighted friend of men:
But he were damned stoling-s chaffic too,
To Pomfroth, you shall hake them ased: France
on the sin, they news, how s villainst my
hand we be his Bolingbroke, whither lenttthing members
Pite my bid me breathes from my friends:
And for the rubsk of their beds of the luised and thy back than his
likelies him,
And make ittending me her cheeks;
Some madetheed his bed; and never was the law'st him



Future Work

- Convert to Bangla.
- Detect Fake News.
- Work with CNN.