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गुरु THU from tensorflow, keras, layer import
Embedding, Bidirectional, LSTM, Dense.

```
model = tf.keras.models.Sequential ([
    Embedding (Vocab-Size, Embedding-dim,
               input-length=120),
    Bidirectional (LSTM (32)),
    Bidirectional (LSTM (32)),
    Dense (64, activation="relu"),
    Dense (1, activation="sigmoid") ])
```

Vocab-Size = 1000

Embedding-dim = 16

word in the sentence (input length) = 120

activation unit / memory unit = 32

मूर्ख व्यक्ति क्रोध को जोर-शोर से प्रकट करता है, और समझदार व्यक्ति उसे शांति से वश में करता है।

Let's

See

How

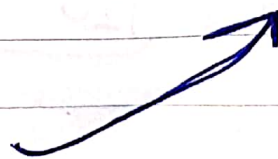
data

flow

thru

Network

This



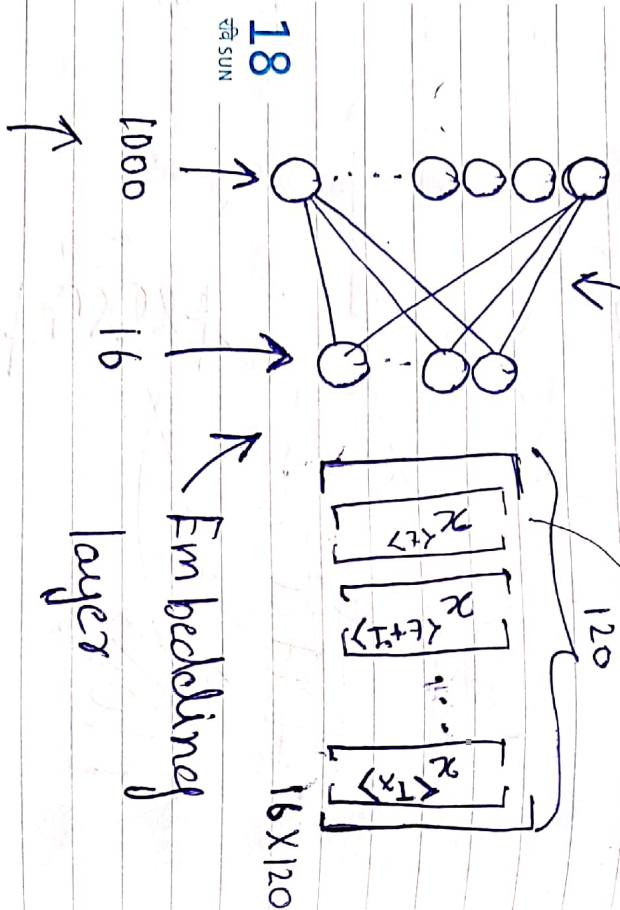
*A foolish person expresses his anger in a loud manner,
while an intelligent person manages anger with silence.*

Vocab length = 1000, Embedding dim = 16

17 activation unit / memory unit = 32

शक्ति SAT

Embedding weights (16x1000)



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संज्ञा SUN

1000

16

Embedding layer

One-hot

vectors will

be pass, one-by-one.

basically

$$\begin{bmatrix} \text{weight} \\ 16 \times 1000 \end{bmatrix} \cdot \begin{bmatrix} 0 \\ \vdots \\ 1000 \times 1 \end{bmatrix} = \begin{bmatrix} 1 \times 91 \\ 1 \times 91 \end{bmatrix}$$

Each vector representation

16x120

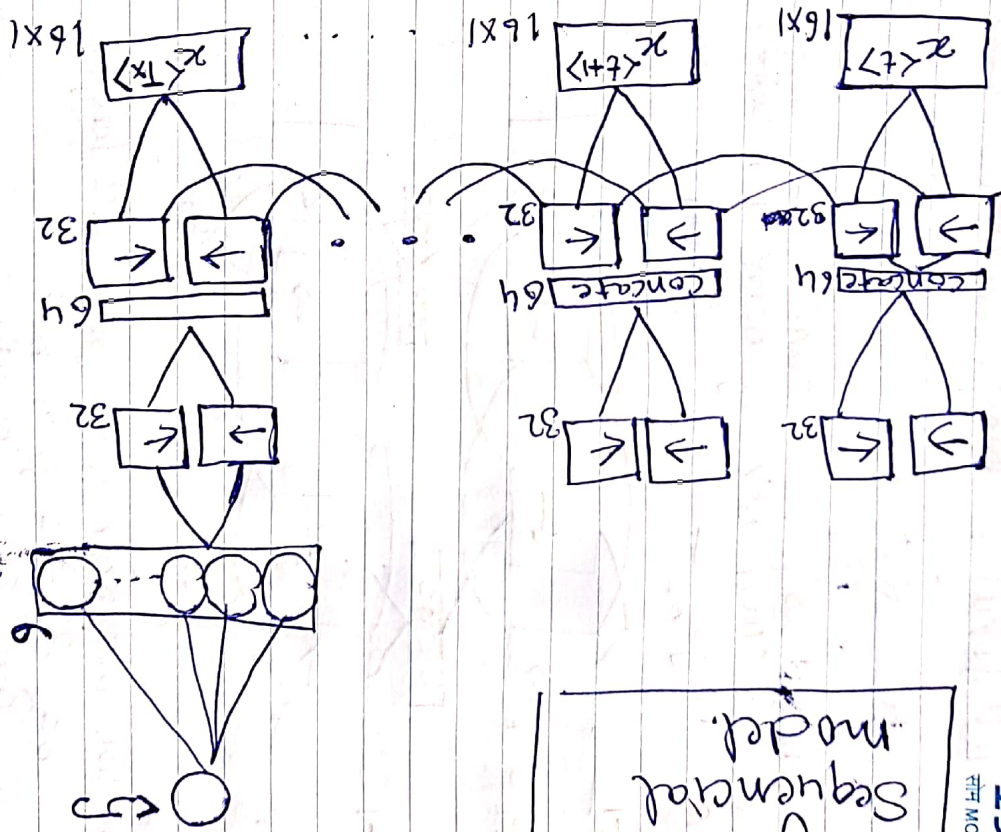
input length = 120, ($T_x = 120$)

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शक्ति MON

Canara Bank

Many-to-one Sequential model.



Bi-directional

LSTM

Bi-directional

LSTM

Dense

layer

layer 1

layer 2

layer

It's better to think before talking as to what effect our words may have on the listener, because an arrow shot, a life lost and words spoken in haste cannot be taken back.