## Report

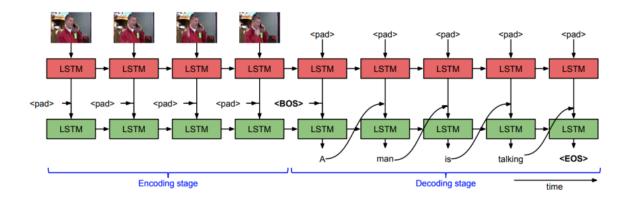
### **Github Link**

https://github.com/ruicho/HW2/tree/main/HW2/HW2\_1

### **Dataset Tree**

### **Network Model**

The network structure is similar as the one used in the paper:



# Parameteres:

LSTM dimension	256
Validation batch size	100
Number of frames	80
Maximal caption length	50
Forget bias (in the red blocks)	1.0
Forget bias (in the green blocks)	1.0
Dropout probability	0.5
Learning rate	0.5
Number of epochs	100
Batch size	256

#### Data directories:

Data directory	/HW2/HW2_1/MLDS
Test data directory	/HW2/HW2_1/MLDS/testing_data
The saved model directory	saved_model/

Schedule sampling is used in this model, and the sampling probability is 0.6.

The final bleu score for this model:

```
(base) PS C:\Users\10452\Downloads\seq2seq_video2text-master\HW2\HW2_1> python .\bleu_eval.py .\final_output.txt
Average bleu score is 0.701456473412245
(base) PS C:\Users\10452\Downloads\seq2seq_video2text-master\HW2\HW2_1>
```

We can see the bleu score is about 0.7

For running the shell:

Please run:

hw2\_1.sh \_ \_ \_

- \_ \_ here represent the data directory, the test data directory, and the name of the output(.txt)

How to run the training:

Run: python model\_train.py

How to get the bleu score:

Go to the data set file.

Run: python bleu\_eval\_origin.py HW2/HW2\_1 /final\_output.txt

How to run the testing:

Run python model\_test.py