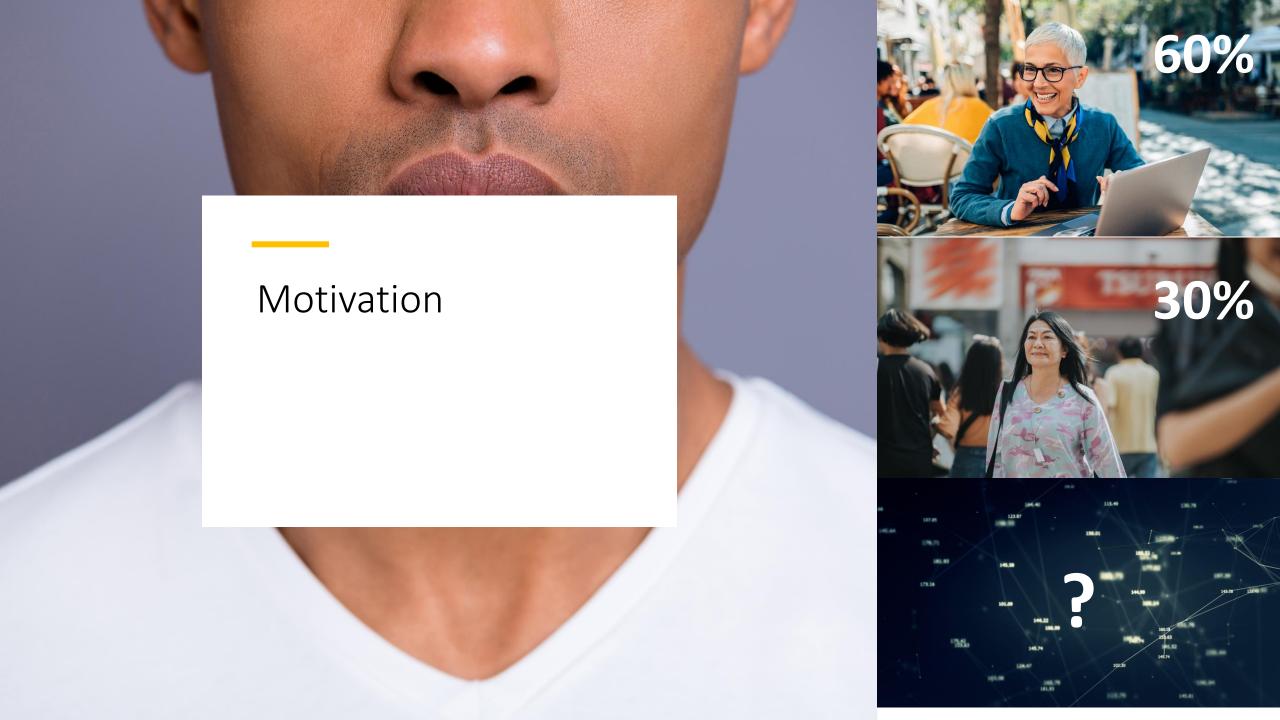
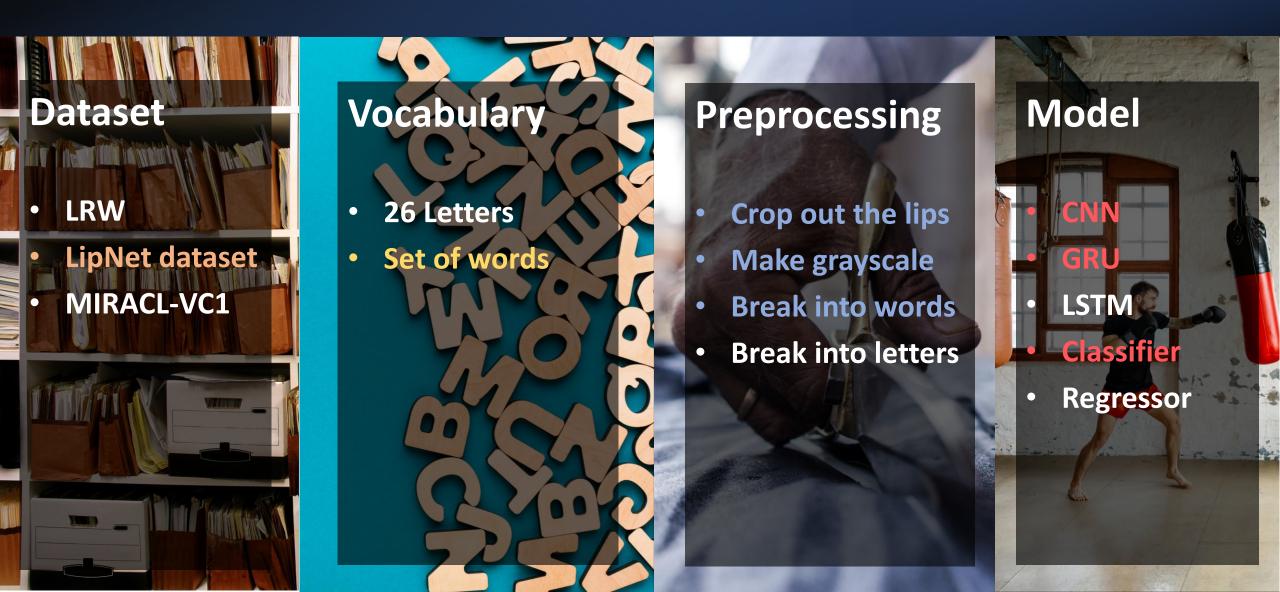
LipRead

11-12-2023

R M Isuru P Rajapakshe



Overview

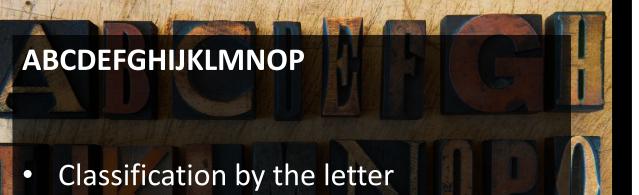


Dataset

```
0 23750 sil
23750 29500 bin
29500 34000 blue
34000 35500 at
35500 41000 f
41000 47250 two
47250 53000 now
53000 74500 sil
```



Dataset used is a part of https://spandh.dcs.shef.ac.uk/gridcorpus/ dataset



- Poor performance
- Difficult to train with limited resources
- Ideal solution if it worked
- Suitable for any number of words

'now','bin','white','soon','green','lay',
'blue','place','again','please'

- Classification by words
- Good performance
- Can train with maximum resource utilization
- Is not ideal for large number of words.

Vocabulary

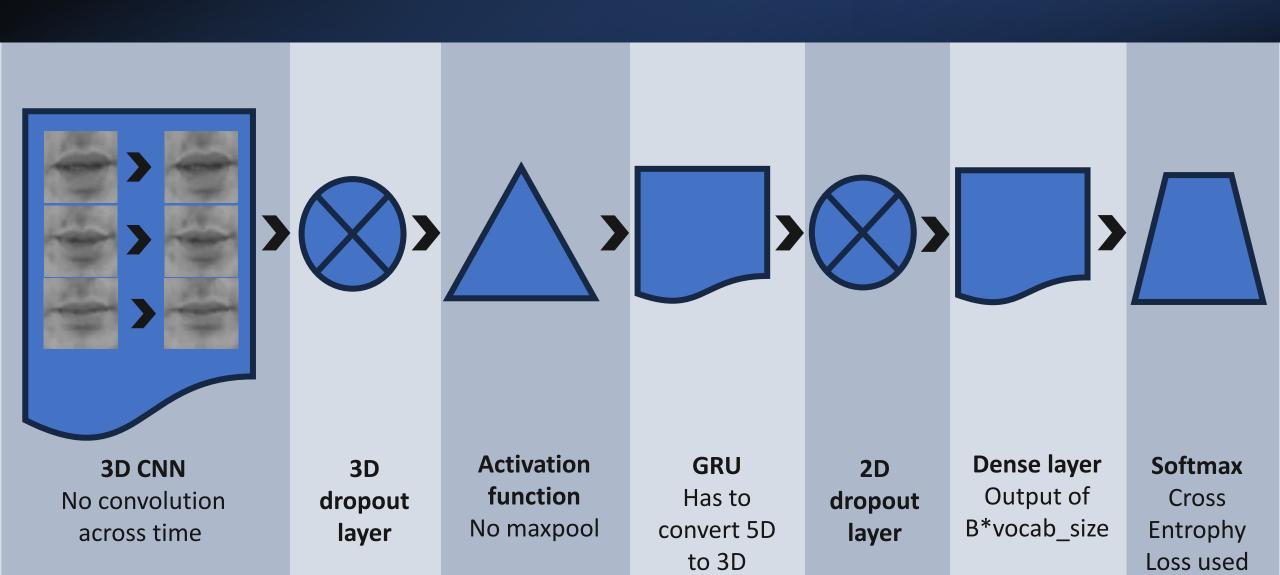
Preprocessing



bin

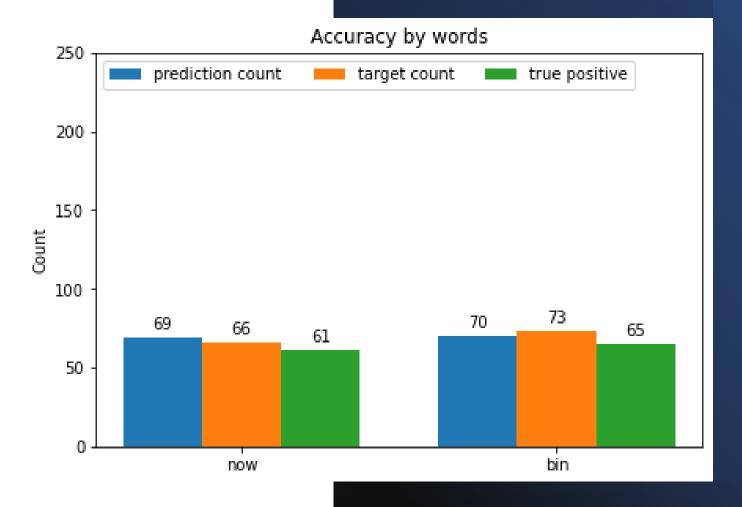


Model



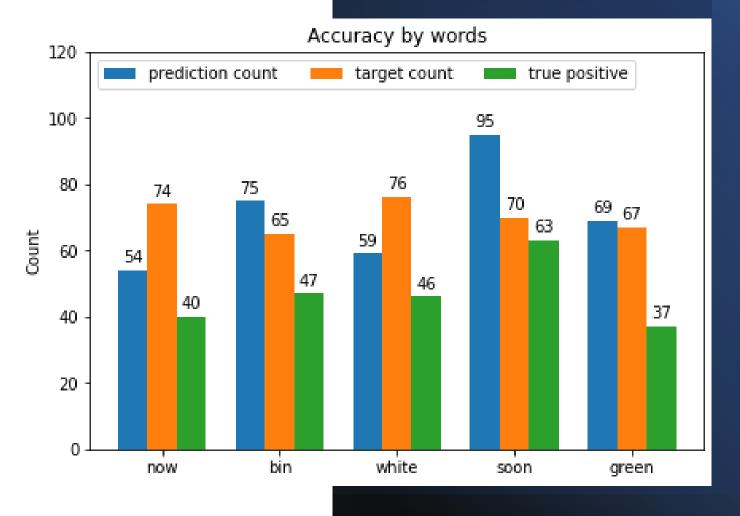
Performance for vocab of : now, bin

• Accuracy is 91%



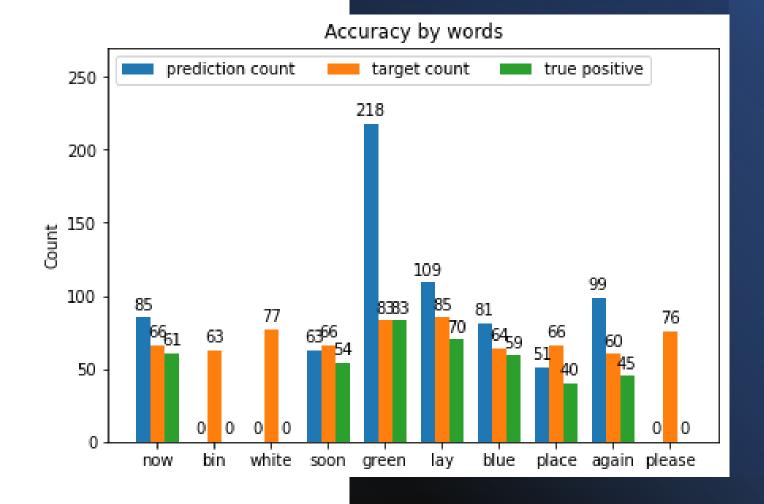
Performance for vocab of : now, bin, white, soon, green

• Accuracy is 66.19%



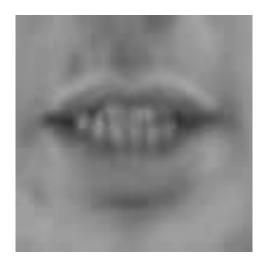
Performance for vocab of : now, bin, white, soon, green, lay, blue, place, again, please

- Accuracy is 59%
- Some words are completely ignored



Demo

Vocab : now, bin, white, soon, green, lay, blue, place, again, please

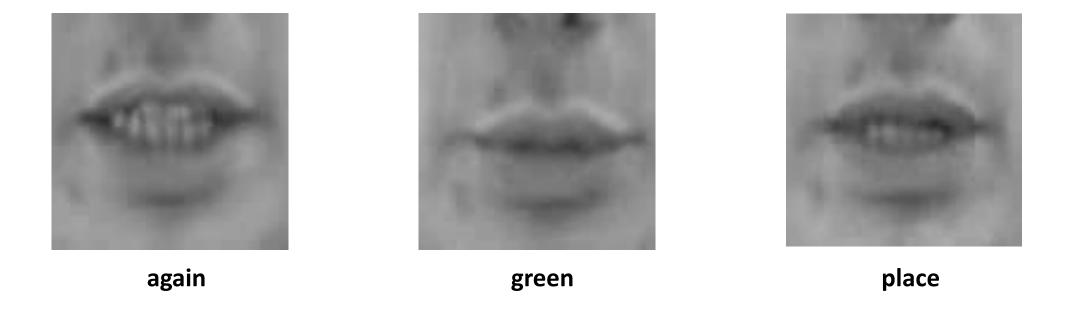






Demo

Vocab : now, bin, white, soon, green, lay, blue, place, again, please



The End