Ass 3 – Part 3

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Model's Parameters of representation a

For both data sets:
- Number of epochs: 5
- Optimizer: Adam
- Embedding layer: Words embedding layer
- Words lstm: Bidirectional lstm with 2 layers and dropout (p=0.5).
- Dropout: 0.5

POS:
- Learning rate: 1e-3
- Embedding dim: 150
- Bilstm output dim: 512

NER:
- Learning rate: 0.002
- Embedding dim: 200
- Bilstm output dim: 200

Model's Parameters of representation b

For both data sets:
- Number of epochs: 5
- Optimizer: Adam
- Embedding layer: Chars embedding layer
- LSTM: Unidirectional char lstm with one layer.
- biLSTM: Bidirectional word lstm with 2 layers and dropout (p=0.5).
- Dropout: 0.5

- Learning rate: 1e-3
- Embedding dim of chars: 15
- Char lstm output dim: 50
- Word bilstm output dim: 512

NER:
- Learning rate: 0.002
- Embedding dim of chars: 200
- Char lstm output dim: 220
- Word bilstm output dim: 230

Model's Parameters of representation c

For both data sets:
- Number of epochs: 5
- Optimizer: Adam
- Embedding layers: Words embedding layer, Prefixes embedding layer and Suffixes embedding layer.
- LSTM: Bidirectional lstm with 2 layers and dropout (p=0.5).
- Dropout: 0.5

POS:
- Learning rate: 0.002
- Embedding dim of all embedding layers: 50
- bilstm output dim: 256

NER:
- Learning rate: 0.003
- Embedding dim of all embedding layers: 140
- bilstm output dim: 150

Model's Parameters of representation d

For both data sets:
- Number of epochs: 5
- Optimizer: Adam

- o Learning rate: 1e-3
- o Embedding layer: Chars embedding layer.
- o LSTM: Unidirectional char lstm with one layer.
- o biLSTM: Bidirectional word lstm with 2 layers and dropout (p=0.5).
- o Dropout: 0.5

POS:
- o Embedding dim of chars: 15
- o Char lstm output dim: 50
- o Embedding dim of words: 50
- o Word bilstm output dim: 512

NER:
- o Embedding dim of chars: 200
- o Char lstm output dim: 220
- o Embedding dim of words: 220
- o Word bilstm output dim: 230

Graphs:

NER