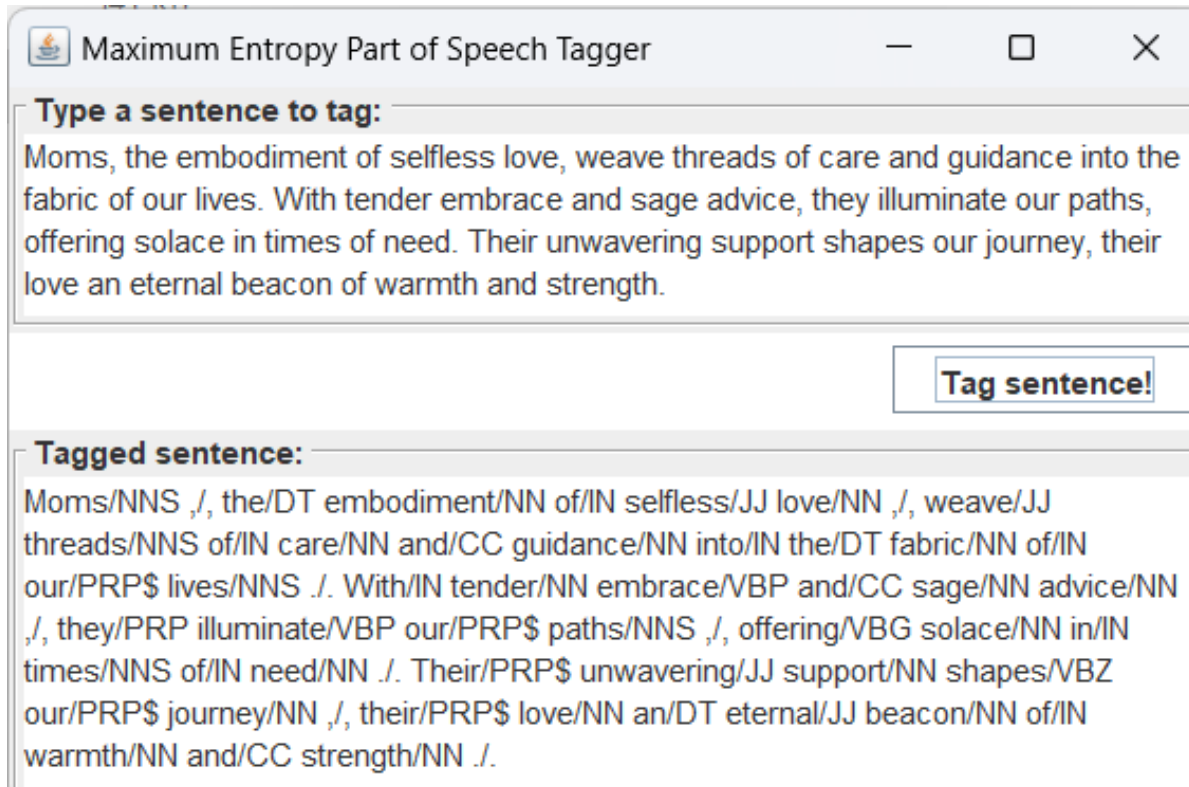


TEAM - 13

NLP API – STANFORD POS TAGGER

USER INTERFACE:



Maximum Entropy Part of Speech Tagger

Type a sentence to tag:

Moms, the embodiment of selfless love, weave threads of care and guidance into the fabric of our lives. With tender embrace and sage advice, they illuminate our paths, offering solace in times of need. Their unwavering support shapes our journey, their love an eternal beacon of warmth and strength.

Tag sentence!

Tagged sentence:

Moms/NNS ,/, the/DT embodiment/NN of/IN selfless/JJ love/NN ,/, weave/JJ threads/NNS of/IN care/NN and/CC guidance/NN into/IN the/DT fabric/NN of/IN our/PRP\$ lives/NNS ./ With/IN tender/NN embrace/VBP and/CC sage/NN advice/NN ,/, they/PRP illuminate/VBP our/PRP\$ paths/NNS ,/, offering/VBG solace/NN in/IN times/NNS of/IN need/NN ./ Their/PRP\$ unwavering/JJ support/NN shapes/VBZ our/PRP\$ journey/NN ,/, their/PRP\$ love/NN an/DT eternal/JJ beacon/NN of/IN warmth/NN and/CC strength/NN ./

JAVA INTERFACE:

```
import java.io.BufferedReader;
import java.io.FileReader;
import java.util.HashMap;

import edu.stanford.nlp.tagger.maxent.MaxentTagger;

public class POSTaggerExample{
    public static void main(String[] args) throws Exception {
        String modelPath = "C:\\Users\\ksury\\Desktop\\Semester 6\\Data
Analytics\\Assignment\\stanford-postagger-2010-05-26\\stanford-postagger-2010-05-
26\\models\\bidirectional-distsim-wsj-0-18.tagger";
```

```
MaxentTagger tagger = new MaxentTagger(modelPath);
```

```
HashMap<String, String> taggedSentences = new HashMap<>();
```

```
BufferedReader reader = new BufferedReader(new  
FileReader("C:\\Users\\ksury\\Desktop\\Semester 6\\Data  
Analytics\\Assignment\\abc.txt"));
```

```
String line;
```

```
while ((line = reader.readLine()) != null) {
```

```
    String[] words = line.split("\\s+");
```

```
    for (String word : words) {
```

```
        String taggedWord = tagger.tagString(word);
```

```
        taggedSentences.put(word, taggedWord);
```

```
    }
```

```
}
```

```
reader.close();
```

```
for (String sentence : taggedSentences.keySet()) {
```

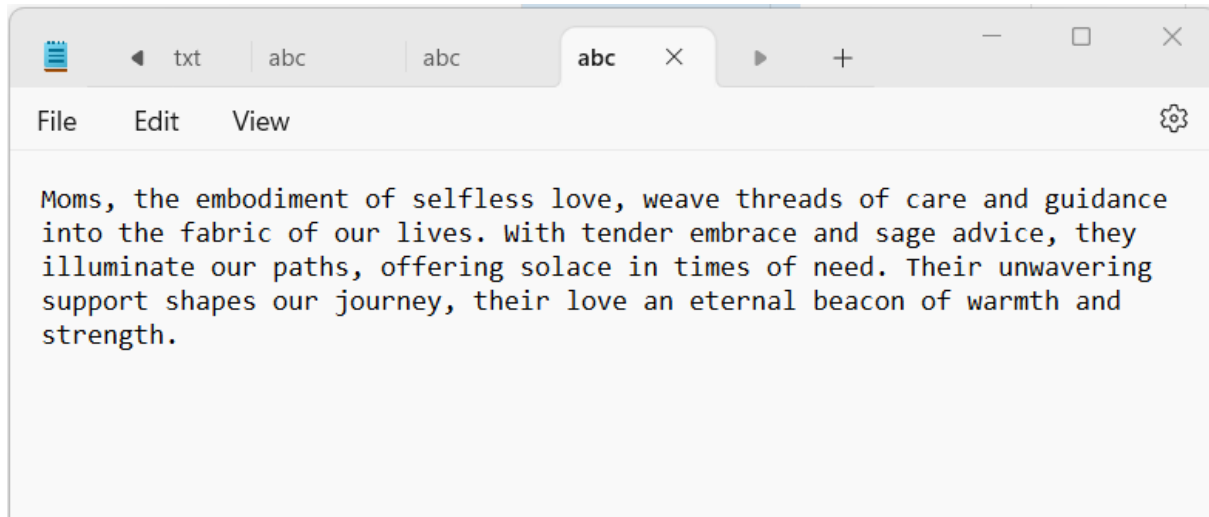
```
    System.out.println(taggedSentences.get(sentence));
```

```
}
```

```
}
```

```
}
```

INPUT FILE:



OUTPUT:

```
"D:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:D:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.2.5\lib\idea_rt.jar=64153
Loading default properties from trained tagger C:\Users\ksury\Desktop\Semester 6\Data Analytics\Assignment\stanford-postagger-2010-05-26\stanford
Reading POS tagger model from C:\Users\ksury\Desktop\Semester 6\Data Analytics\Assignment\stanford-postagger-2010-05-26\stanford-postagger-2010-0
love/NN
unwavering/JJ
their/PRP$
our/PRP$
lives/NNS ./
With/IN
into/IN
times/NNS
paths/NNS ./,
and/CC
shapes/NNS
of/IN
sage/NN
embodiment/NN
love/NN ./,
illuminate/VB
journey/NN ./,
they/PRP
tender/NN
embrace/VB
warmth/NN
advice/NN ./,
in/IN
need/NN ./
threads/NNS
strength/NN -./.
```