# CoSSAT: Code-Switched Speech Annotation Tool

September 3, 2019

### 1 User Interface

#### 1.1 Baseline System

| CoSSAT: Code-Switched Speech Annotation Tool |                           |  |  |
|--|---------------------------|--|--|
|  |                           |  |  |
|  | ► — • 0:02 / 0:02 ◆ • — • |  |  |
| O English 💿 Hindi                            |                           |  |  |
| advance में बोल                              |                           |  |  |
|  |                           |  |  |
|  | SUBMIT                    |  |  |
|  |                           |  |  |

Figure 1: Baseline System

#### 1.2 CoSSAT

## 2 User Feedback

| CoSSAT: Code-Switched Speech Annotation Tool  |   |
|---|---|
| ► — 0.02 / 0.02 ▲ — —<br>English 	 Hindi<br>frictions कम]<br>प्रियमन FICTION क्रियम FRICTIONS व्युम्ल FICTIONS यंस ACTIONS यंस कम SMS KARO हो<br>JASKAMAL जाता KAMLESH KAMRAT हे। AMRITA जातें MOHITE होता OKAY<br>SUBMIT | SPACE □<br>BACKSPACE ■<br>REMWORD <<br>, . ? ! .<br>. / : ; ! |

Figure 2: CoSSAT (Code-Switched Speech Annotation Tool)

5. Please rate Annotation System with Word Buttons (from of 1 [worst] to 5 [best]) in terms of the following criteria:

More Details

| <b>1 2 3 4 5</b>   |      |    |      |
|--|------|----|------|
| Convenience/Ease of use  |      |    |      |
| Speed (Was able to transcribe faster)                            |      |    |      |
| User friendliness (How easy it was to understand interface)      |      |    |      |
| Error robustness (Did you make less errors with this interface?) |      |    |      |
|  | 100% | 0% | 100% |

Figure 3: Feedback from users regarding their experience with CoSSAT

- More Details

   1
   2
   3
   4
   5

   Convenience/Ease of use

   Speed (Was able to transcribe faster)

   User friendliness (How easy it was to understand interface)

   Error robustness (Did you make less errors with this interface?)

   100%
   0%
   100%

   10%
- 6. Please rate Annotation System without Word Buttons (from of 1 [worst] to 5 [best]) in terms of the following criteria:

Figure 4: Feedback from users regarding their experience with Baseline System

7. Which annotation system would you prefer to use if you were regularly transcribing long codemixed speeches/audio?



Figure 5: Overall User Feedback