What is the NER Model for Live Captioning?

specifically, on idea units and how accurately they are captured in the captions.







How are NER scores calculated?

NER measures the number of edition and recognition errors deducted from the total number of words in live captions, including punctuation marks. The number is then divided by the total number of words in live captions and multiplied by 100. A score of 100 indicates that the content was captioned perfectly. The pass threshold in the NER model is 98%.

What are the types of errors?

[E] - Edition Errors

Edition errors are usually caused by a decision of the live captioner to edit or omit original spoken text, for example, because the original speech rate is too fast. These errors represent the loss of an idea unit (a piece of information).



- Critical Error: False Information Editing/Paraphrasing error in the captions provides false but plausible information to the
- Major Error: Loss of Main Point -0.5 Caption loses main point of an idea
- Minor Error: Loss of Detail -0.25 Caption keeps the main point but loses a detail of an idea
- **Correct Edition** 0.0 Paraphrase captures full meaning.

[R] - Recognition Errors

Recognition errors are usually misrecognitions caused by mispronunciations/mishearings or by the technology used to produce the captions. These errors may be insertions, deletions or substitutions, and are calculated by comparing the respoken text to the original text

- Critical Error: False Information -1.0 Wrong word/phrase/punctuation error provides false but plausible information to the
- Major Error: Nonsense Error -0.5 Wrong word/phrase/punctuation affects readability in a way that you cannot understand the idea
- Minor Error: Benign Error -0.25 Wrong word/phrase/punctuation affects readability but you can still understand the

How is NER scored?

Scores are calculated manually by professionals who have been trained in the NER model so as to provide consistent scoring. The scoring is accompanied by an assessment of the caption quality, which includes not only accuracy, but also delay, speed, positioning and technical issues amongst other aspects.



https://speechtotextcaptioning.org/