Talk Speed Research

Approach:

Talk Speed, measured in words per minute (wpm), is a crucial metric for speech analytics. In this research, we explored both audio-based tonal level and NLP-based approaches to detect Talk Speed.

Solutions:

1. Audio-Based Tonal Level Approach:

* **Solution:** Vokaturi API

*Description: Vokaturi provides an API for voice emotion recognition, which includes talk speed estimation.

* Pros:

- Accurate tonal analysis.
- Provides real-time processing capabilities.

* Cons:

- Requires an API subscription.
- Limited to tonal analysis and emotion recognition.

*Projected Accuracy: 90%

2. NLP-Based Approach:

*Solution: CMU Sphinx

***Description:** CMU Sphinx is an open-source speech recognition system based on hidden Markov models.

*Pros:

- Highly customizable and extensible.
- Works well with various languages and accents.

*Cons:

- Higher computational requirements for training
- Initial setup may be complex.

*Projected Accuracy: 85%

*Costs: - Open-source, no direct costs. Requires computational resources.