
Voice Challenge Privacy 2025

By : Dumb & Dumber



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Problematic



Problematic of VPC25

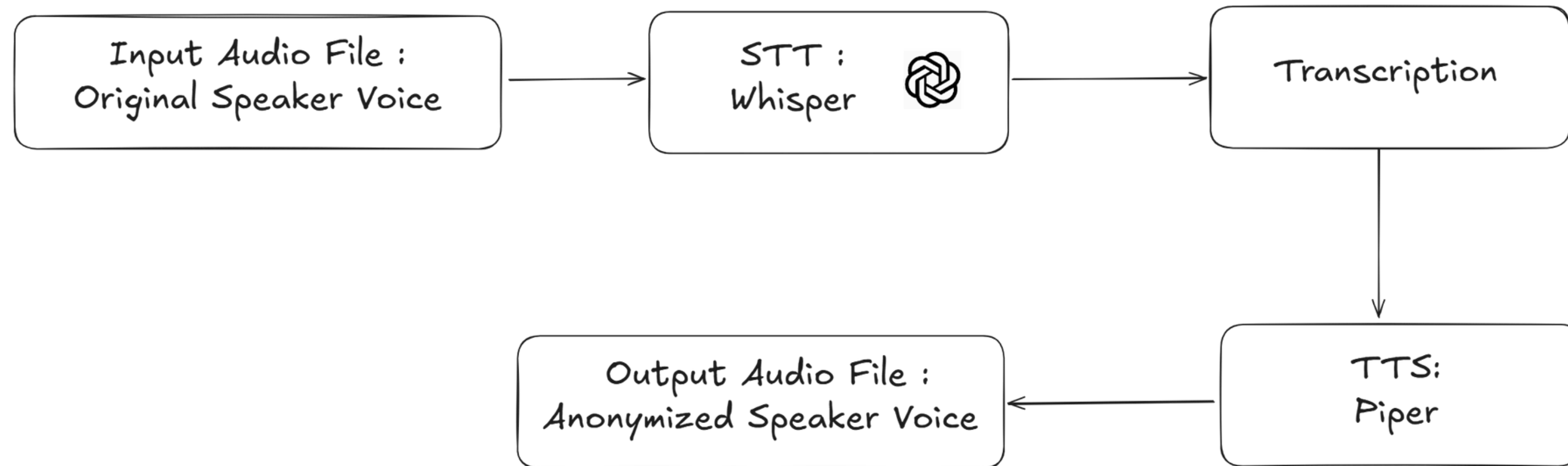
- 1 How to anonymize a speaker's voice effectively while preserving speech intelligibility and naturalness?
- 2 How to ensure that anonymized voices remain consistent across different utterances of the same speaker?

- 3 How to prevent speaker verification models from re-identifying anonymized voices?
- 4 How to achieve anonymization with minimal computational cost for real-time or large-scale processing?



Solution

Voice Anonymizer Architecture





Results



Results Summary

- Word Error Rate (WER): 8.25%, indicating that the anonymized speech retains high intelligibility.
- Equal Error Rate (EER): 58.33%, suggesting strong anonymization as the speaker verification system struggles to correctly identify speakers.
- Runtime: 171.43 seconds, showing the time taken for processing.

These results indicate a well-balanced trade-off between privacy and intelligibility.

**Thank You For
Your Attention !**