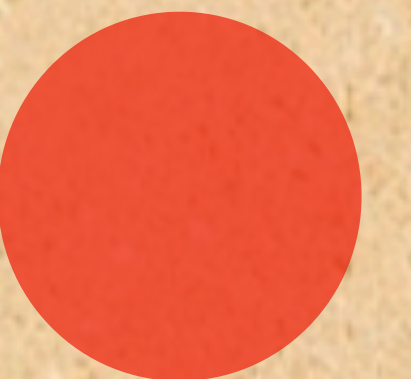
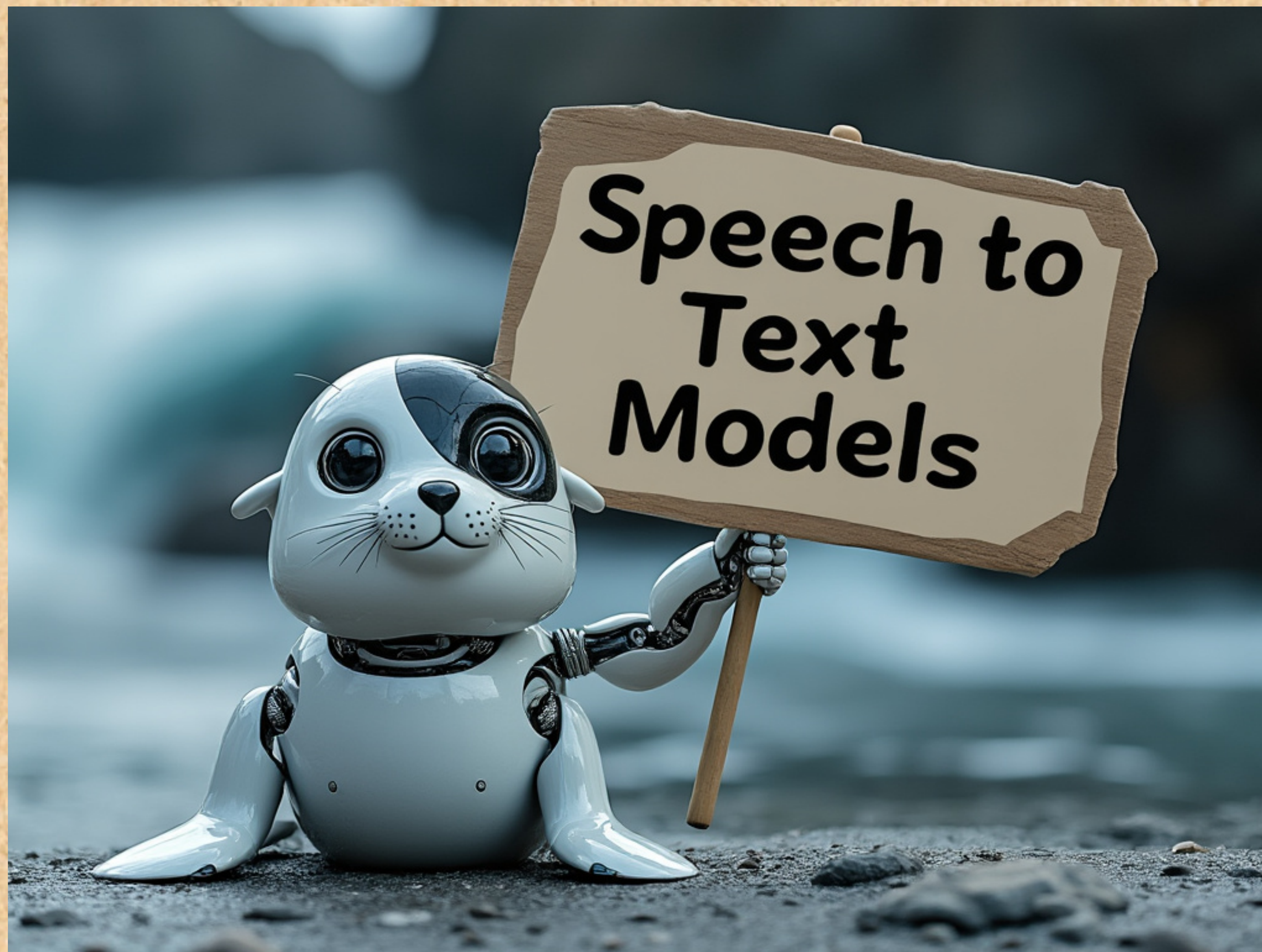


Module 3 - Topic 4

3.4.3 Speech to Text Models





What are Speech to Text Models?

Speech to text models, also known as Automatic Speech Recognition (ASR) systems, convert spoken language into written text.

- Process audio input through neural networks trained on vast amounts of speech data
- Convert sound waves into text while handling different accents and languages
- Leverage transformer architecture for improved accuracy

Applications of ASR

Speech-to-text technology has revolutionized how we interact with devices and process audio content.

- Real-time captioning for videos and live events
- Voice assistants and automated customer service
- Meeting transcription and documentation
- Accessibility tools for hearing-impaired individuals

Popular Tools and Models

Some of the leading solutions in STT space

- OpenAI Whisper
- Amazon Transcribe
- Google Speech-to-Text

Using STT Models using API

ft. Whisper