

1. Course overview

The Monster Text to Speech & Voice Cloning Course

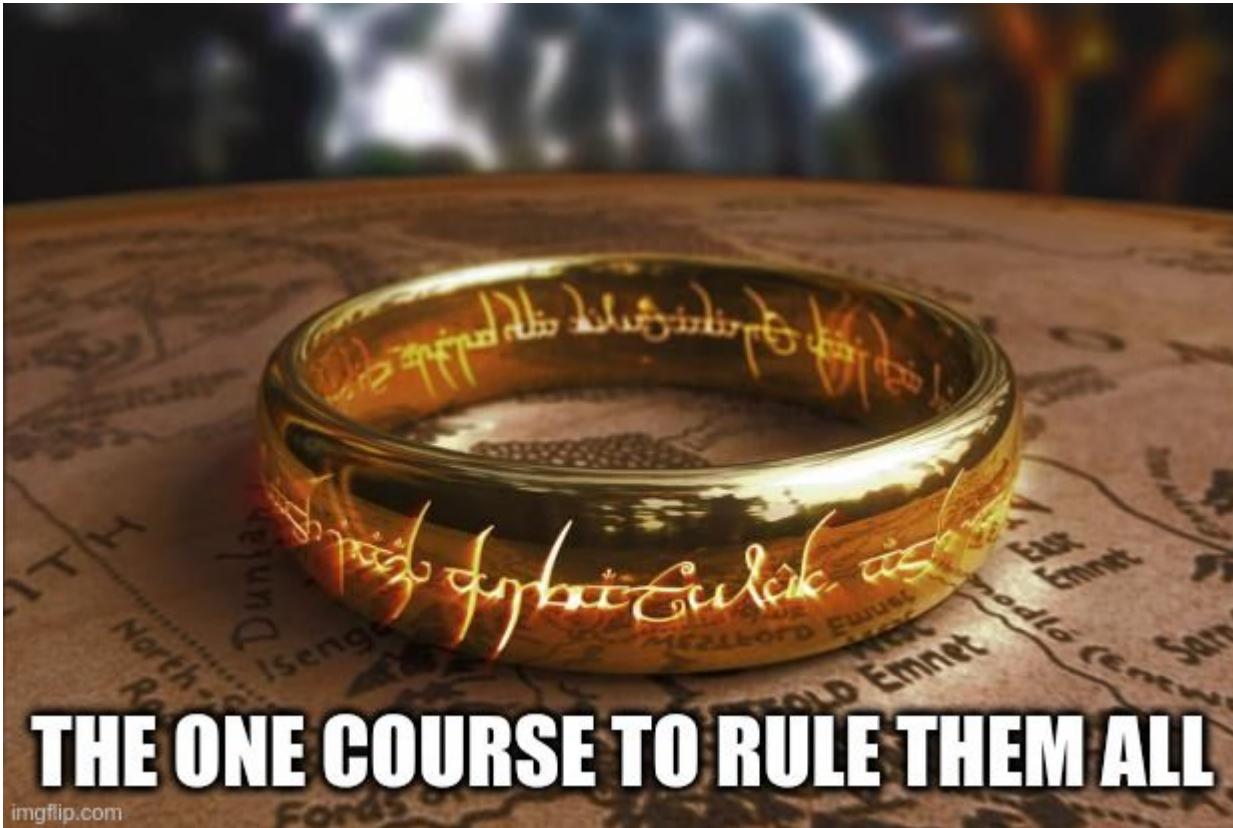
THE  SOUND OF AI

Understand how machines
learn to speak, from
phonemes and text to
realistic voices and
expressive AI speech

Why learn TTS / Voice Cloning?

- Voice AI is exploding
- Voice = main interface between humans and AI
- Lots of jobs for voice ML specialists

HOW IT FEELS TO LEARN TTS



imgflip.com

THE SOUND OF AI

Who's this course for?

- ML engineers / researchers
- Audio programmers
- Developers
- Engineering managers
- Product managers with technical understanding

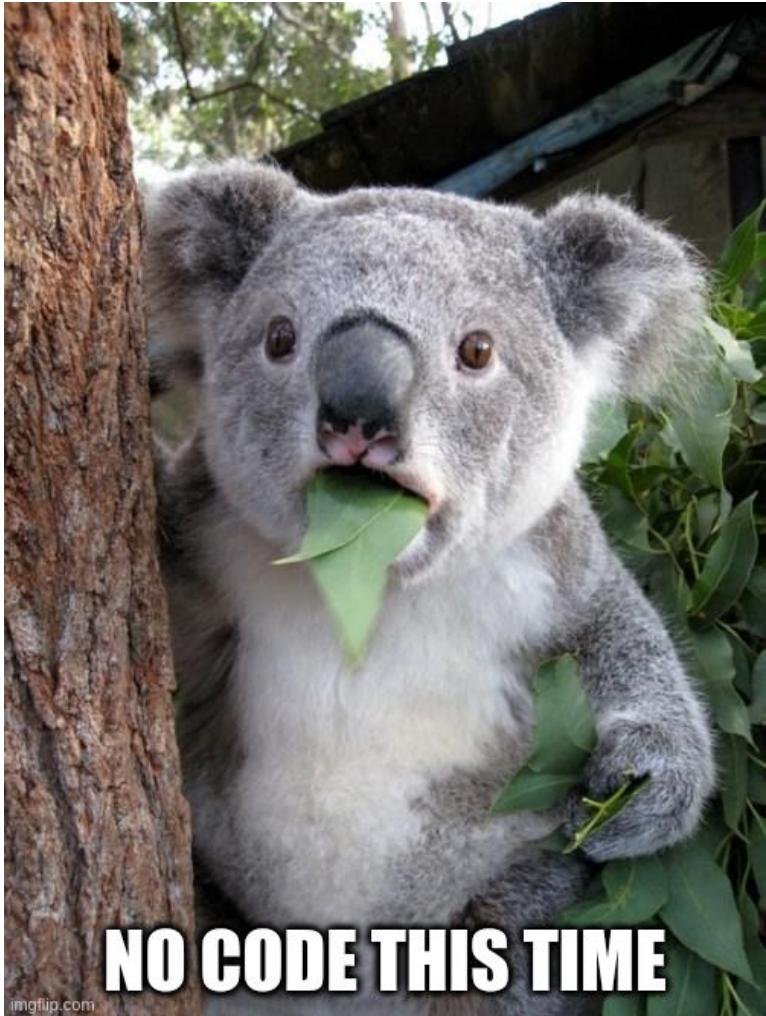
Pre-requisites

- Basic ML concepts (e.g., embeddings, training)
- DL architectures (e.g., transformers, GANs)
- Basic DSP (e.g., power spectrum, spectrogram, waveform)
- No coding experience is OK
- Willing to learn... a ton



Teaching style

- Big-picture conceptual videos
- Zoom-ins on specific systems
- Pointers to papers, models, and demos



NO CODE THIS TIME

imgflip.com

THE SOUND OF AI

What you'll learn

What you'll learn

Foundations

- How humans speak
- How machines process text and phonemes

What you'll learn

Foundations

- How humans speak
- How machines process text and phonemes

Core technologies

- From traditional TTS to neural vocoders (e.g., HiFi-GAN)
- Neural codecs and discrete audio tokens (e.g., EnCodec)
- Self-supervised speech representation (e.g., WavLM)
- Codecs-based generation and voice cloning (e.g., VALL-E)

What you'll learn

Foundations

- How humans speak
- How machines process text and phonemes

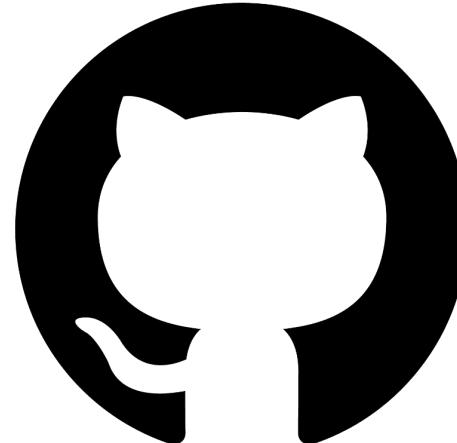
Core technologies

- From traditional TTS to neural vocoders (e.g., HiFi-GAN)
- Neural codecs and discrete audio tokens (e.g., EnCodec)
- Self-supervised speech representation (e.g., WavLM)
- Codecs-based generation and voice cloning (e.g., VALL-E)

Frontiers

- Emotion, prosody, and accent modeling
- Voice singing and speech-to-speech generation
- Conversational and voice agents

Where do I get the learning material?



GitHub

Where can I discuss course topics?

- [The Sound of AI Slack community](#) -> #tts-course
- YouTube comments



How do I get the most out of it?

- Watch actively: pause, think, sketch the flow
- Study (some of) the papers I cover
- Play around with the models
- Follow all the videos in order

PUT THE TIME IN!



Course pace

- 1-2 videos per week
- 3-5 months to publish all videos
- 3-5 hours of study / week

LET'S GET STARTED

