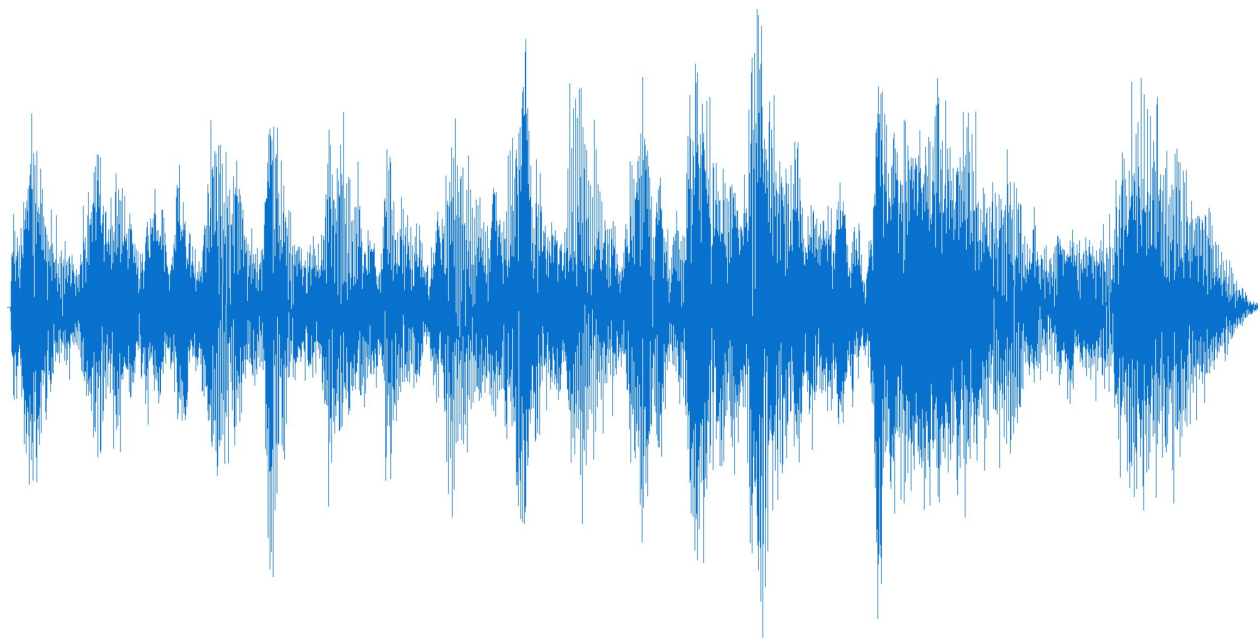


Deep Learning (for audio) with Python

Learning goals

- Capabilities and limits of deep learning (DL)
- Fundamental theory behind neural networks
- Industry-standard DL libraries
- Implement different types of neural networks

Course focus



Technologies



Technologies

- Python and TensorFlow are industry standards
- TensorFlow uses Keras as a simple interface
- TensorFlow is open source

Content

- AI / ML / DL
- Multilayer perceptron
- Convolutional neural networks (CNNs)
- Recurrent neural networks (RNNs)
- Generative adversarial networks (GANs)

What should you expect?

- Theory
- Coding tutorials
- Applications

Where do I get code/slides?



Who's this course for?

- Python devs who want to pick up DL
- Devs who play around with DL libraries
- Devs with an interest in audio/music
- Practitioners with experience in audio digital signal processing (DSP)
- Data analysts who want to step up their game

Prerequisites

- Intermediate Python coding skills
- I won't teach you how to code!
- Basic linear algebra - great, but not necessary
- Basic audio DSP - great, but not necessary

BRACE YOURSELF



DEEP LEARNING IS COMING