Classifying AudioMNIST using PyTorch

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MNIST
PEOPLE
WHO MAKE
CNN TUTORIALS
SHOWING
YOU HOW
TO LOAD
YOUR OWN DATA

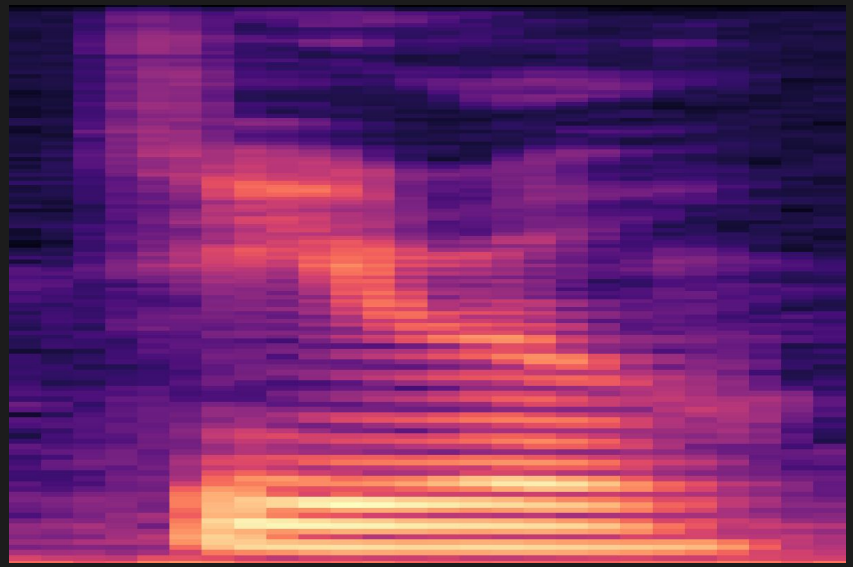
Audio-MNIST

Audio-MNIST

- 0-9 digits spoken by various people from different country
- 3000 audio samples for each class
- 30000 audio files in total

Spectrograms

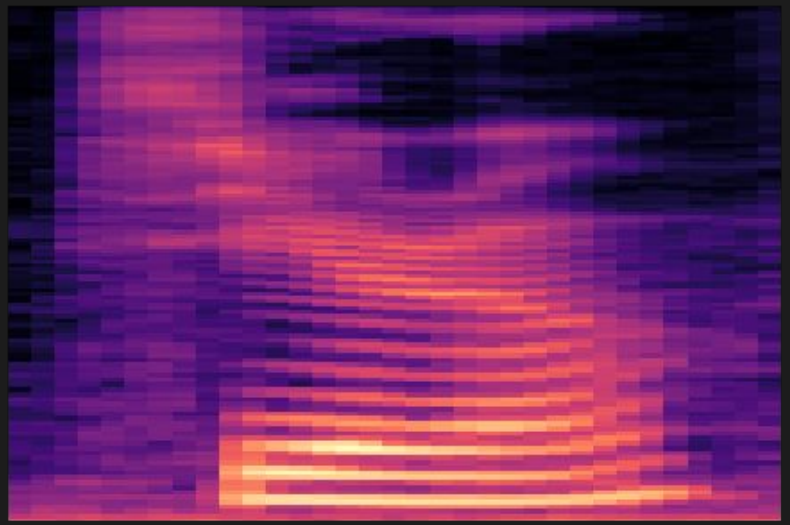
Spectrogram



Spectrogram

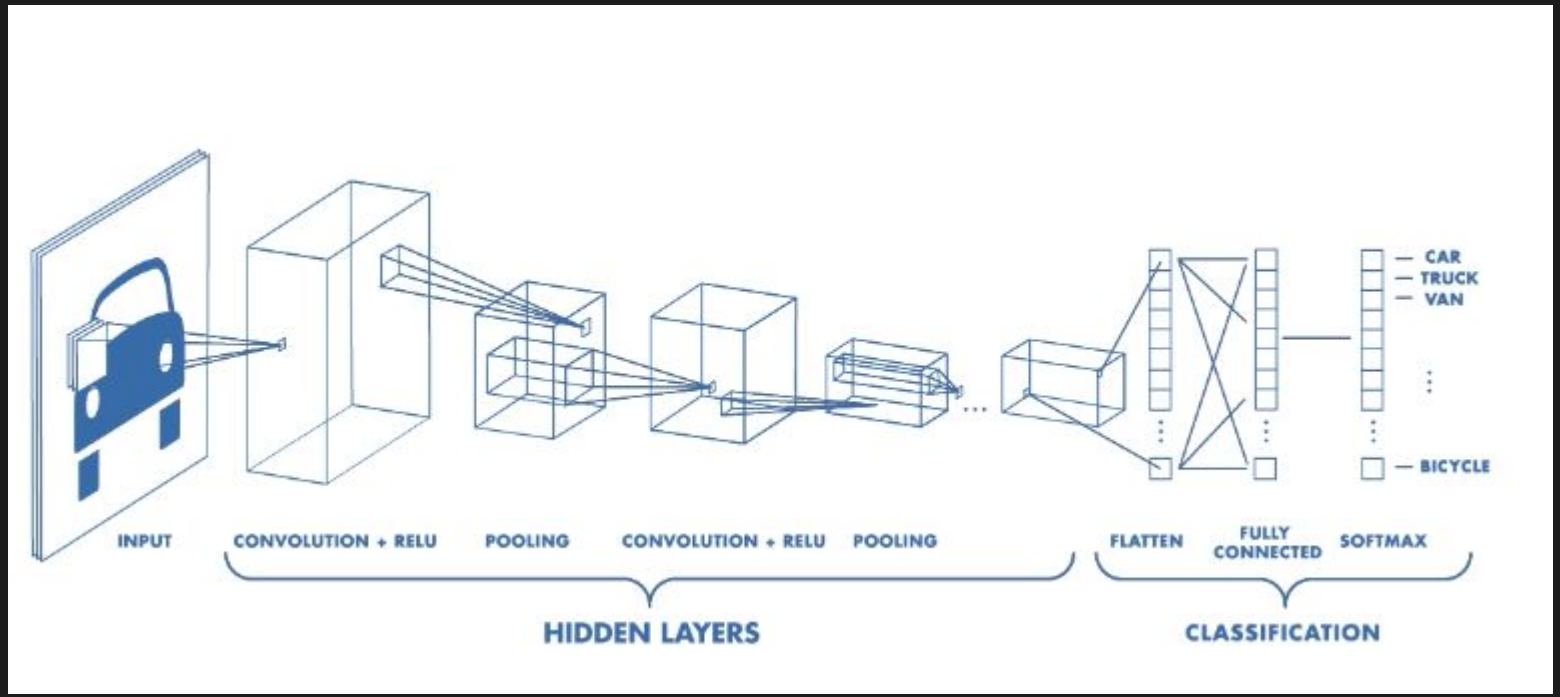
Librosa

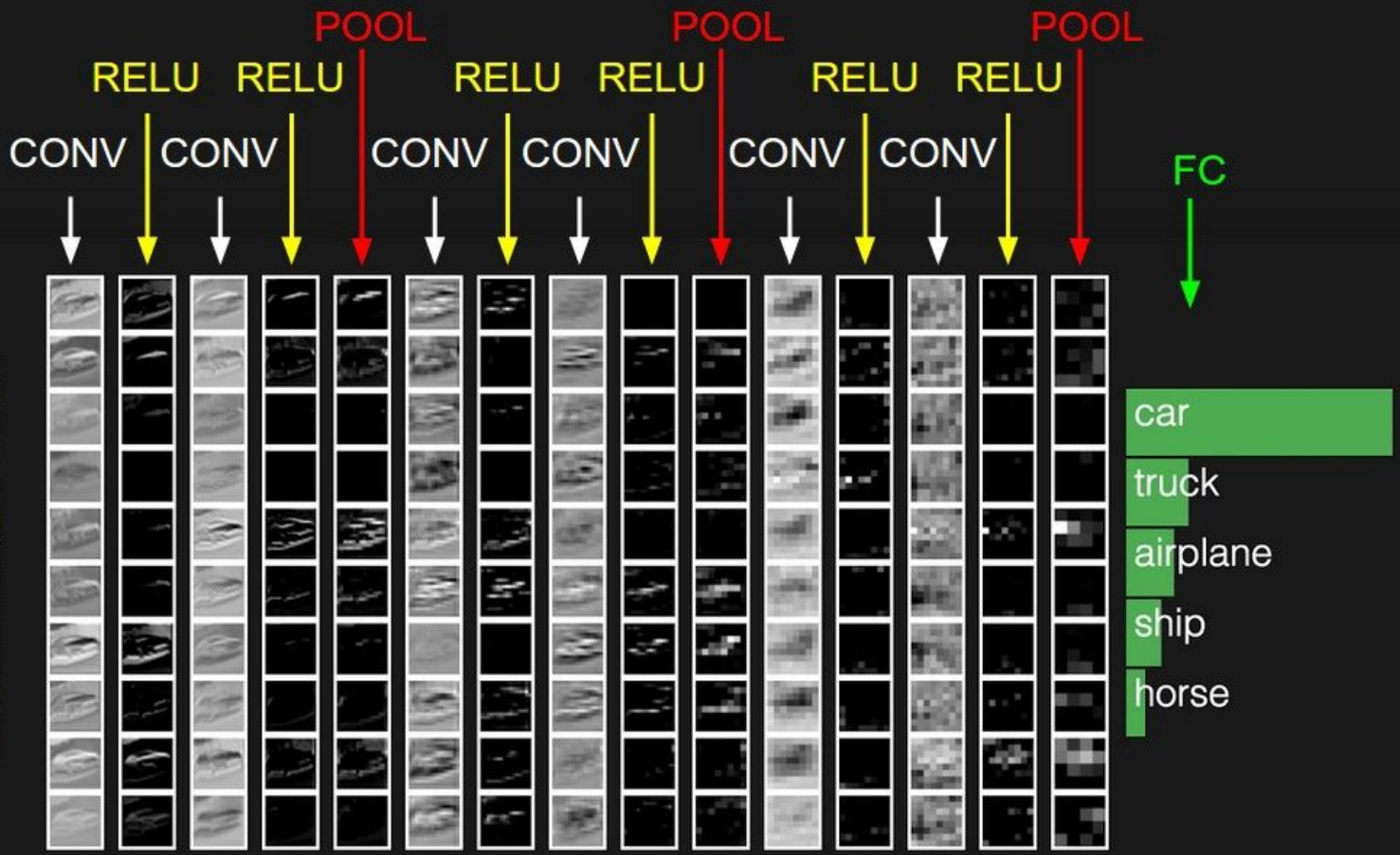
```
y, sr = librosa.load('0_1.wav’)
data = librosa.feature.melspectrogram(y=y, sr=sr)
librosa.display.specshow(librosa.power_to_db(data,ref=np.max), y_axis='mel', fmax=8000, x_axis='time')
```




LET ME SPRINKLE SOME
DEEP LEARNING MAGIC
memegenerator.net

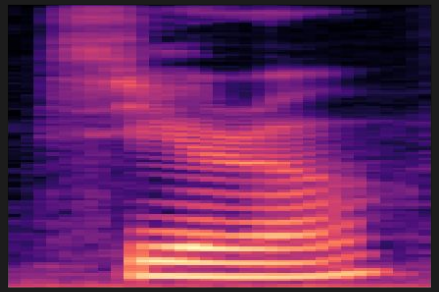
Convolutional Neural Network(CNNs)




POOL
POOL
POOL
RELU
RELU
RELU
RELU
RELU
RELU
CONV
CONV
CONV
CONV
CONV
CONV
FC
car
truck
airplane
ship
horse


PyTorch

Data

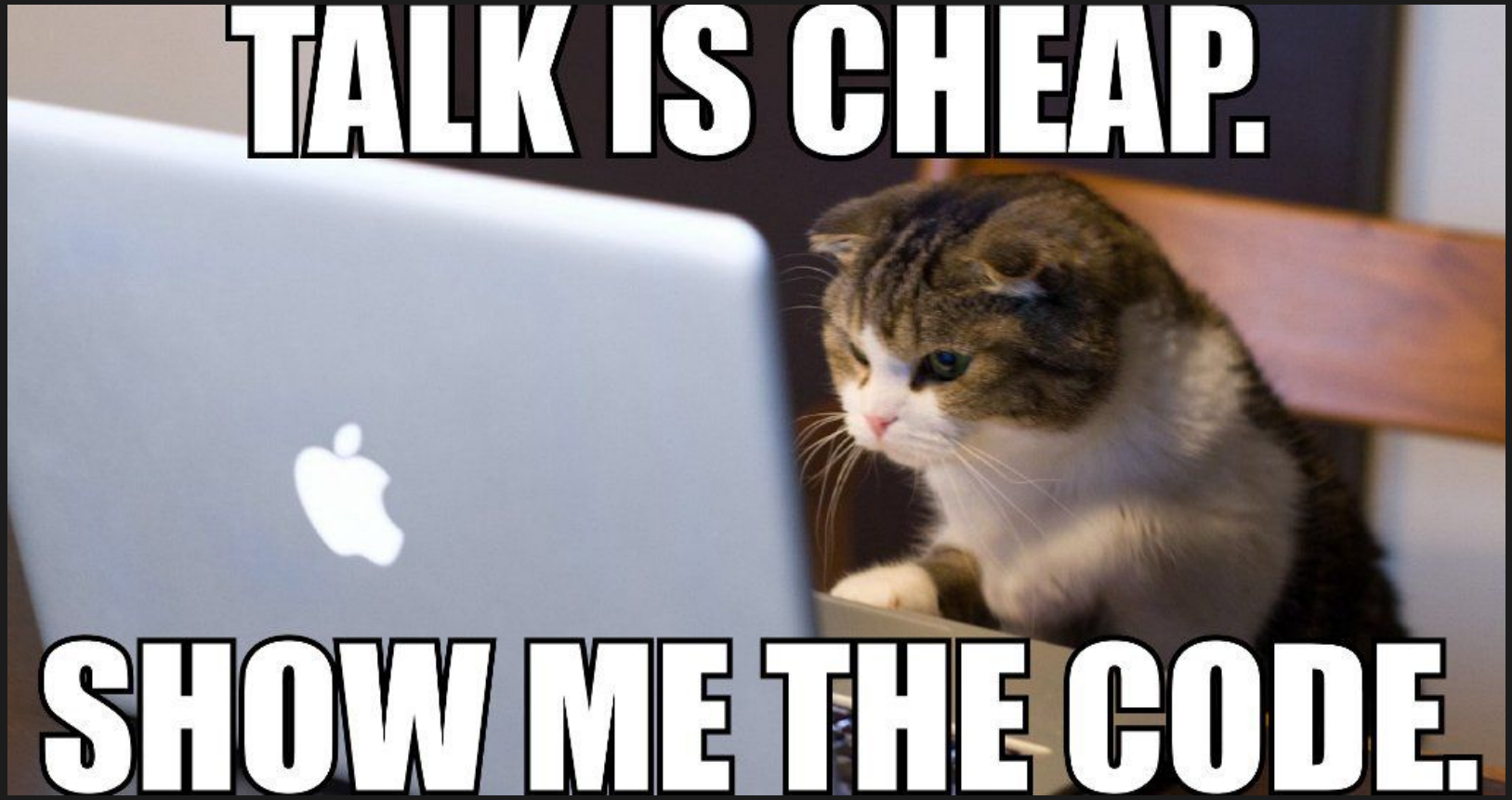


Model

CNN

Framwework

PYTORCH


TALK IS CHEAP.
SHOW ME THE CODE.


Q
A

Thank You!

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