Speech sentiment analysis

My name is Kapelushnikov Andrey Sergeevich
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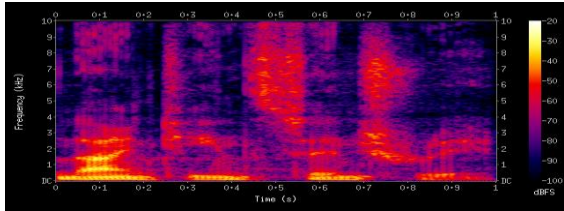# Idea

__the best day in my life__xxx! → | ML magic | → *positive*

*__hate my life__ ***!* → | ML magic | → *negative*
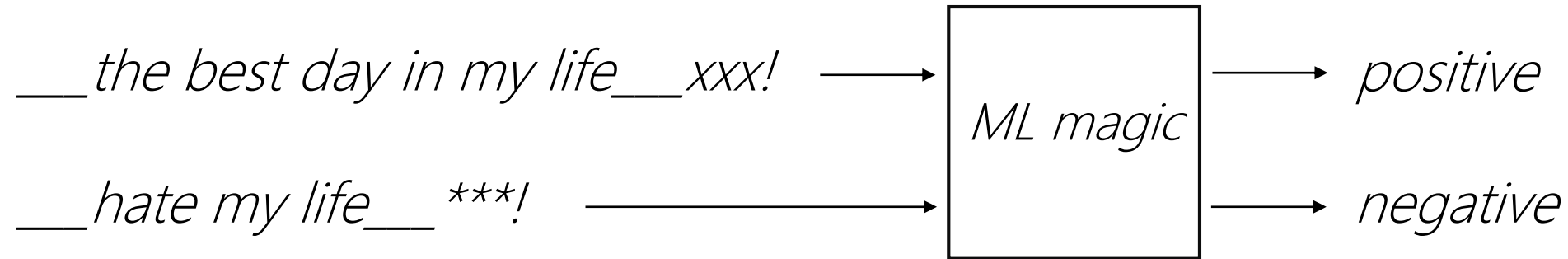
If people can write they may can be able to speak (but it isn`t curtain)

→ | ML magic | → *positive*

→ | ML magic | → *negative*
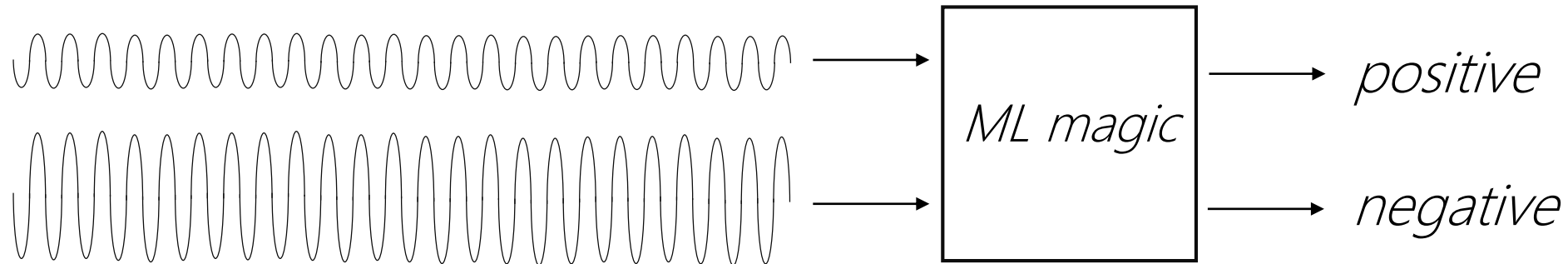
First trouble(s)

1) No marked dataset

2) No dataset

3) No dataset at all

4) No experience in dealing with sound

Step №1

"Okay Librosa give me a spectrogram..."

Convolution

MaxPooling

...

Dense

...

OutputDense

[0.75, 0.99, 0.87, ..., 0.12]
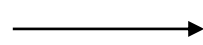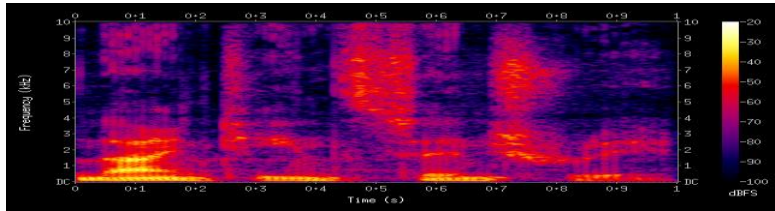
Accuracy: 60% better then random...

Second **try**:

"Xgboost came to play with us. Forever…"

Simple file.wav opened in Python and ⟶ Top Model ⟶ 64,5% accuracy
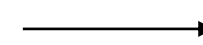loaded to array

Warning! Don`t **try** to repeat! Consequences aren`t explored!

finally:

"Okay Librosa give me the second spectrogram..."

 ⟶ Xgboost ⟶ 77% accuracy

There may be other variants like models or ensembles from sklearn library or different variants of preprocessing.

Thanks for your attention!

You may **try** to ask some questions