



ITMO UNIVERSITY

NLP Basic and Selected Topics

A Practical and Easy Introduction to Selected Topics

Aug 31st, 2019

Last part today

- ✓ Look at modern deep learning – examples on how to accomplish difficult tasks

Auto ML

- ✓ So far Deep Learning is an art, a dark art. You need to know many tricks in how to configure all kinds of hyperparameters, and the model architecture, and many many other things
- ✓ AutoML tries to make deep learning super simple, and still work somehow
- ✓ For example: <https://uber.github.io/ludwig/>
- ✓ <https://uber.github.io/ludwig/examples/>

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FastAI

- ✓ Is a deep learning library built on top of PyTorch
- ✓ State-of-the-art results for many problems possible, without going into the details!

FastAI example

- ✓ Legal document classification
 - ✓ Multi-label classification
 - ✓ Xtreme classification
 - ✓ 17000 documents, about 5000 labels
 - ✓ Very skewed label distribution
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- ✓ https://github.com/gwohlgen/JRC_fastai/blob/master/KED_labels_w_preprocessing.ipynb