

Piotr Piękos

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in Piotr Piękos

Objective

Creating robust machines that can abstract their learned knowledge and use it effortlessly in new environments that share a similar structure.

Education

University of Warsaw

Mathematics, Master

Faculty of Mathematics, Informatics and Mechanics,

Thesis was an investigation of mathematical abilities in language models. It was accepted to ACL-IJCNLP 2021 in the form of a publication. More on that below.

Master's Degree

Graduation: October 2021

University of Warsaw

Mathematics, Bachelor

Faculty of Mathematics, Informatics and Mechanics,

Thesis about using residual connections in recurrent neural networks

Bachelor's Degree

Graduation: April 2018

University of Warsaw

Computer Science, Bachelor

Faculty of Mathematics, Informatics and Mechanics,

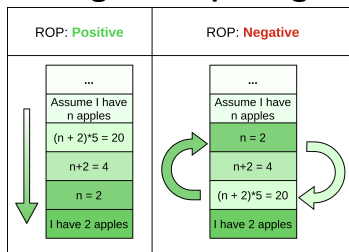
Thesis about porting OpenFace for face recognition on the phone

Bachelor's Degree

Graduation: July 2017

Publications

Measuring and Improving BERT's Mathematical Abilities by Predicting the Order of Reasoning (ACL, oral)



This project investigates mathematical abilities in language models and proposes training on rationales as a bridge between informal natural language and formal mathematics. Additionally proposes novel losses for better utilization of the rationales. Our model is the state of the amongst model with low inductive biases and the results are comparable with hand-crafted models.

Conferences and workshops:

- ACL-IJCNLP 2021 (Main Conference, oral)
- EEML 2021 (Best poster award)
- MathAI (ICLR 2020 Workshop)
- BayLearn 2020

[Arxiv link](#) [Project website](#)

Experience

Allegro.pl

Research engineer

Improving the quality of search neural reranking model

11.10.2021–now

ITMagination

Data Science/ ML Team Leader

I was responsible for designing solutions to handle business problems with machine learning. I also together with the team implemented these solutions in PyTorch / TensorFlow. Example Project: Categorizing patent ideas by natural language descriptions. One of methods involved using sentence embeddings produced by fine-tuned BERT.

01.07.2019–01.06.2020

ITMagination

Data Science / ML Consultant

01.07.2017–01.07.2019

Implementing machine learning solutions for external companies.


Hcore

Python Developer Internship

01.07.2016–30.09.2016

Writing backend software in Python.

Open-source

BERT for trax | **trax**: Open source contribution for trax (google library for neural networks using jax) It adds BERT model and masked language modeling pipeline preparation. [Github](#) 

Languages

English: Advanced

Polish: Native

Interests

Chess, Computer Games, Psychology

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