Fake news classification

Cohort II
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1 Abstract

As our access to the information grows, it gets harder and harder to verify each one of them. Misinformation could be a huge problem, especially during global pandemic or military conflicts. That's the reason our team decided to face this challenge and tackle fake news classification. We utilize WELFake data set, which combines different fake news' sources, what hopefully will lead to good generalization. We build several machine learning models; starting from simple ones such as logistic regression, through tree ensembles, ending at neural networks. Besides standard model's performance evaluation, we utilize local explainability techniques such as SHAP values. Finally, we try to verify, whether our models are able to classify AI-generated examples as well as latest news.

2 Cloud resources

1. Kaggle (including its GPU resources),
2. clearml.

3 Code repository

- github,
- Kaggle (more code is yet to be posted).