Practice 8

Classical machine learning models for text classification

Commonly for text classification these models are using:

- 1. Multinomial Naïve Bayes (NB)
- 2. Logistic Regression (LR)
- 3. Support Vector Machines (SVM)
- 4. Stochastic Gradient Descent (SGD)
- 5. k-Nearest-Neighbors (kNN)
- 6. RandomForest (RF)
- 7. Gradient Boosting (GB)
- 8. XGBoost (the famous) (XGB)
- 9. Adaboost
- 10. Catboost
- 11. LigthGBM
- 12. Passive Aggressive Classifier

Task 1: choose 1 classical algorithm, make a report with code examples (5-10 pages) and presentation for 10-15 minutes.

Task 2: apply the chosen algorithm for true-fake news classification.

Literature:

- 1. https://arxiv.org/pdf/2008.00364.pdf
- 2. https://scikit-