Classification of Myers–Briggs Type Indicator personality types using Natural Language Processing

Andor Kiss, Dóra Bányai, Milán Kriston, and Zoltán Kádár

Eötvös Loránd University

1   Literature search

As indicated in papers [1] [3] the state of the art models for text classification are transformer based architectures. Our idea was to use an LSTM-based baseline model and three different pretrained transformer architectures downloaded from huggingface, namely Generative Pre-trained Transformer 2 (GPT-2) [2] BERT and RoBERTa.

2   Individual contributions

2.1   Andor Kiss - TXC54G

– Team leader tasks - Git repo, weekly report to supervisor, Google Docs, LaTeX template
– Literature search
– Data exploration
– Data pipeline
– GPT-2 training and evaluation

2.2   Dóra Bányai - NEPTUN

– Literature search
– Data exploration
– RoBERTa

2.3   Milán Kriston - NEPTUN

– Literature search
– Data pipeline
– BERT

2.4   Zoltán Kádár - NEPTUN

– Literature search
– Data exploration
– LSTM-based baseline model

Table 1. Table captions should be placed above the tables.

Heading level	Example	Font size and style
Title (centered)	**Lecture Notes**	14 point, bold
1st-level heading	**1 Introduction**	12 point, bold
2nd-level heading	**2.1 Printing Area**	10 point, bold
3rd-level heading	**Run-in Heading in Bold.** Text follows	10 point, bold
4th-level heading	*Lowest Level Heading.* Text follows	10 point, italic

3 Results

References

1. Minaee, S., Kalchbrenner, N., Cambria, E., Nikzad, N., Chenaghlu, M., Gao, J.: Deep learning based text classification: A comprehensive review (2020). https://doi.org/10.48550/ARXIV.2004.03705, https://arxiv.org/abs/2004.03705
2. Radford, A., Wu, J., Child, R., Luan, D., Amodei, D., Sutskever, I.: Language models are unsupervised multitask learners (2019)
3. dos Santos, V., Paraboni, I.: Myers-briggs personality classification from social media text using pre-trained language models. JUCS - Journal of Universal Computer Science **28**(4), 378–395 (apr 2022). https://doi.org/10.3897/jucs.70941, https://doi.org/10.3897%2Fjucs.70941