

Zgłoszenie tematu **INŻYNIERSKIEJ** pracy dyplomowej

**STUDIA I STOPNIA** rok akademicki 2019/20

<b>Promotor:</b>	<b>dr hab. Jozef Kapusta, prof. UP</b>
Temat pracy dyplomowej (j. polski, j. angielski):	<i>Fake News Identification</i> <i>Identyfikacja fałszywych wiadomości</i>
Zakres pracy i oczekiwane rezultaty praktyczne:	<p>Alongside increasing use of social networks, especially for communication, we observe a high increase in the distribution of false news, hoaxes and other half-truths in periodicals, as well as in society. The issue of actively looking for ways to prevent the interference of fake news on citizens' opinion is currently one of the European Commission's priorities.</p> <p>The thesis is focused on the application of selected methods of machine learning. The student will select some machine learning methods (decision trees, decision rules, Bayes classifier, etc.) and the student will use these methods for fake news classification. The important part of the thesis will be the comparison of the success of chosen methods. The prediction models will serve to "fake news" identification. The models will be trained with fake and real news datasets from kaggle.com.</p>
Aspekt inżynierski*:	Application selected methods of machine learning (decision trees, decision rules, Bayes classifier, etc.), implementation selected methods for fake news identification.
Wymagane oprogramowanie/języki programowania**:	Jupyter Notebook environment (Python)
Środowisko uruchomieniowe**:	Windows or Linux
Dodatkowe wymagania i uwagi:	English language
Literatura**:	<ul style="list-style-type: none"> <li>• Zhang, X, Ghorbani, A. A. (2019). An overview of online fake news: Characterization, detection, and discussion. In. Information Processing &amp; Management, Elsevier</li> <li>• De keersmaecker, J., Roets, A. (2017). 'Fake news': Incorrect, but hard to correct. The role of cognitive ability on the impact of false information on social impressions. In: Intelligence, Vol. 65, pp 107-110, ISSN 0160-2896</li> <li>• Navlani, A. (2018). Decision Tree Classification in Python.</li> </ul>

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	<a href="https://www.datacamp.com/community/tutorials/decision-tree-classification-python">https://www.datacamp.com/community/tutorials/decision-tree-classification-python</a>
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**\*należy uzasadnić/wskazać, czy praca spełnia wymagania inżynierskie**

**\*\*pola opcjonalne**