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| 1. **Name of the challenge** *(short, powerful and inspiring description):*

 **Fake-news detector - monitoring of antisocial behaviour** |
| 1. **Context*:*** *(what is the background information behind the challenge, what is the state of the art of the sectors, the role of the organization in this context, the target group to whom the solution need to be addressed, etc.)*

 During the past U.S. presidential elections the number of fake news surpassed the number of the true ones. Hateful statements, trolling and spamming degrade the level of any discussion. Therefore will be developed a platform for better monitoring and identification of various forms of such antisocial behaviour in the web. The crawler will monitor various blogs, social networks, newspaper portals, etc., and identify in them various phenomena of antisocial behaviour and visualize them in a suitable form. |
| 1. **Problem:** (*What i*s *the problem that needs to be solved, why is important to solve, impact of this problem in the close future, impact of the problem on local or international area)*

Focus of the project is automatized monitoring of antisocial behaviour in online communities which is one of the most topical and serious problems jeopardizing not only the principles the web is based on but have a critical impact in the life of society. The platform will consist of two main parts:● The crawler for data acquisition from various types of web sites, e.g. from the well-known conspiration web pages (<https://www.konspiratori.sk/>) but from the social networks as well (in particular from Facebook and Twitter), through which the unacceptable content spreads further and new such a content is developed.● The web interface that provides tools for crawler management, visualisation of the acquired information on the sources and dispersal of antisocial behaviour. Possible option may be including of experts/public audience in the process of searching for the new sources of antisocial behaviour or in verification of the content identified in automatized way.1. **Additional info (for internal use):**  *(what is expected to be delivered by the team (idea/concept/prototype), what are the specific tools & instruments that shall be used (eg. Programing language etc), what are the asset (as knowledge, materials) will be given to the team*

In developing the platform the primary focus will be given to the fake news and some further forms of antisocial behavior in discusstions , especially hateful statements. A similar example of such a platform is <https://blbec.online/> that concentrates exclusively upon the Facebook pages. Due to broad possibilities of identification, visualisation and further processing of the unsuitable content disclosed, the challenge offers broad scope for implementation of creative ideas of the team.. |
| 1. **Skills of the team (for internal use):** *what specific skills shall the team have in order to address the challenge*

Recommended skills: Backend a crawler - Python/Ruby, Apache Nutch, PostgreSQL, ElasticSearch/Apache Sorl, Frontend - HTML, CSS, JavaScript, Bootstrap. Useful knowledge fields: Knowledge discovery, Information retrieval. |
| **5. About the Seeker:**This project is a part of research project REBELION solved by the STU Faculty of Informatics and IT with prospects of further utilisation of the platform developed and its real life operation. Mentor: Ing. Ivan Srba, PhD. |