CLÁUDIO HAUPT VIEIRA

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EDUCATION

Instituto Superior Técnico   *2018 - 2022*
Ph.D. candidate in Computer Science and Engineering
Faculdade de Ciências da Universidade de Lisboa   *2014 - 2017*
M.Sc. in Bioinformatics

WORK EXPERIENCE

Nova School of Business and Economics   November 2018 - ongoing
Data Scientist
Assistant Professor (Introduction to Programming)

Instituto Gulbenkian de Ciência   March 2017 - November 2018
Data Scientist

Instituto de Medicina Molecular   September 2015 - July 2016
Computational Biologist intern

PROJECTS

Detecting the prevalence of anxiety through online social media data
The typical Internet user searches for health-related information, particularly when they are sick. While user-generated online data has been widely used to monitor infectious diseases such as influenza, its application to detecting and predicting mental health related disorders remains largely unexplored. We expanded the same concept of infectious disease monitoring to such disorders by developing NLP models that recognize textual cues of anxiety. By extracting an estimate of anxiety prevalence through Twitter data over time, we enabled near-real time low cost monitoring of anxiety disorders.
SFRH/BD/139322/2018, Fundação para a Ciência e a Tecnologia

Portuguese political media analysis
News media acts as the standard interface between the public and politics, and it is uncertain to what extent it has the ability to influence the political agenda and vice-versa. I am conducting a large-scale news media analysis in order to get some insights on the dynamics between media, political entities and the decision-making process. Consulting Project requested by the Fundação Calouste Gulbenkian, in context of the Intergeracional project (https://gulbenkian.pt/justica-intergeracional/)

Online influenza surveillance
Seasonal flu places heavy burden on human populations and healthcare systems, thus, require permanent surveillance. Current surveillance methods are robust yet slow. With the collaboration of national and international public health institutions, we developed models that can timely predict flu levels by using a combination of offline and online data (such as search trends and social media sharing).
PTDC IVC ESCT 5337 2012, Fundação para a Ciência e a Tecnologia
DSAIPA/AI/0087/2018, Fundação para a Ciência e a Tecnologia

TECHNICAL STRENGTHS

Known languages: Python, Julia, R
Used packages: Pandas, numpy, nltk, TensorFlow (example)
Toolset: LaTeX, git, Linux shell