Learning to recommend past events

Going beyond its role as an encyclopedia, Wikipedia becomes a global memory place for high-impact events, such as, natural disasters and man-made incidents, thus influencing collective memory, i.e., the way we remember the past. Due to the importance of collective memory for framing the assessment of new situations, our actions and value systems, its open construction and negotiation in Wikipedia is an important new cultural and societal phenomenon. The analysis of this phenomenon does not only promise new insights in collective memory. Finding related entities in Wikipedia or Knowledge Base context has been conducted tremendously in related work. Our work, however, shedding lights on the memory lane of event entity recommendation.

This work is relevant for project or master thesis.

To leverage this work, we partially hinge ourself on:

- Kanhabua, Nattiya, Tu Nguyen, and Claudia Niederée. "What triggers human remembering of events? A large-scale analysis of catalysts for collective memory in Wikipedia." *Digital Libraries (JCDL), 2014 IEEE/ACM Joint Conference on*. IEEE, 2014.
- Jatowt, Adam, Daisuke Kawai, and Katsumi Tanaka. "Digital history meets Wikipedia: Analyzing historical persons in Wikipedia." *Proceedings of the 16th ACM/IEEE-CS on Joint Conference on Digital Libraries*. ACM, 2016.
- Bi, Bin, et al. "Learning to recommend related entities to search users." *Proceedings of the Eighth ACM International Conference on Web Search and Data Mining*. ACM, 2015.

Datasets:
- Wikipedia revisions
- Wikipedia clickstream
- Wikipedia pageviews

Prerequisites for students who are interested in the topic:
- Good programming skills with either Java or Python
- Knowledgeable about basic machine learning and data mining models
- Hand-ons experience with sklearn[1] is preferable

What you will get:
- Cool topic for a master project / thesis
- Machine Learning skill set
- Structured thinking[2]
- Fun

If you are interested, please contact: Tu Nguyen: tunguyen (at) l3s (dot) de.

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[1] http://scikit-learn.org/stable/
[2] Structured thinking is a process of putting a framework to an unstructured problem.