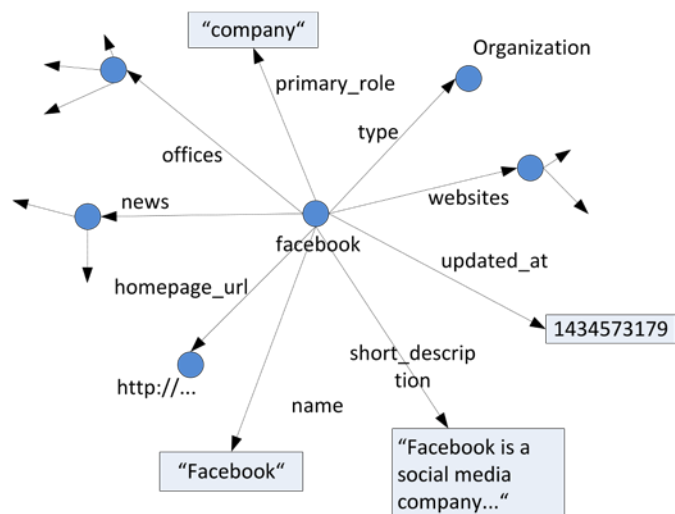


18.07.2019

## Call for Bachelor/Master Thesis (in English or German) “How Do Successful Startups Look Like? Analyzing an RDF Dataset About Startups and Tech Companies”

### What is the topic?

CrunchBase is an online platform providing information about startups and technology companies, including related entities such as the products they sell, key people they employ, and investments they made and received. In our research group, an RDF data set containing the Crunchbase data has been generated (see [1,2]). This data set has been used for data integration with financial data sources to evaluate the performance of particular companies and for monitoring news to find statements that are not in Crunchbase yet.



Last year, a newer version of the data set with much higher coverage of the available data had been generated. The focus of this thesis is to analyze this data set in various degrees. Notably, besides a general statistical analysis (e.g., number of instances and properties), it might be interesting to investigate to which degree lessons learned can be formulated concerning the success of startups.

Since the data is available in RDF, the analyses can be achieved by SPARQL queries. If necessary, the data can be transformed into other formats.

Note that this thesis does not require so much advanced programming skills, but an interest in data analysis and knowledge discovery to create interesting questions to be answered based on the data analysis, such as: „Are companies more successful if they have female CEOs? Which countries and which fields are most attractive to investors?“

[1] <https://zenodo.org/record/3270905>

[2] [http://dbis.informatik.uni-freiburg.de/content/team/faerber/papers/CrunchBaseWrapper\\_SWJ2017.pdf](http://dbis.informatik.uni-freiburg.de/content/team/faerber/papers/CrunchBaseWrapper_SWJ2017.pdf)

### Which prerequisites should you have?

- Basic knowledge about RDF.

Keywords: Semantic Web, RDF, data analysis, statistics.

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