Project Outline

Data Mining Team Project

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Chapter 1

Project Proposal

1.1 Our problem

When people want to choose which restaurant, bar, cafe etc to go they usually take a look at specific properties of the business, such as location, price range, opening hours, cuisine and user based rating. As a result these properties play a decisive role in how successful businesses are. There is a vast amount of businesses which are quite similar if you only take those rather general properties into account, but still their economical success often differs significantly. As a consequence there must be other determining factors that make people choose one business over another.

Some of these factors can be found when taking a look at textual reviews where people state their opinion on certain aspects of the business and often give a concluding rating (e.g. through stars at a scale of 1 to 5). The goal of this project is to extract new aspects of the business from reviews that can be used to give a more sophisticated and granular view on the restaurant or bar.

This is Sophias first Commit.

- 1.2 The Yelp Dataset
- 1.2.1 Background
- 1.2.2 Integration of JSON
- 1.3 Our approach
- 1.3.1 Preprocessing
- 1.3.2 Algorithms
- 1.4 Measure of Success
- 1.5 Possible Results