

Title:

Understanding the similarities of users by performing classic data mining techniques on data-set to provide users with better future suggestions.

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Objective and overview of the project. Why is it interesting and significant?

Identifying the similarities of reviews, ratings, and tips of the users and classify the users into categories and suggest the future options which other users of same category visited or rated high in the recent time. It is a better way to provide suggestions to users.

What are the data mining tasks you will perform on the Yelp dataset?

Link Analysis, Classification are some of the techniques I will be using during the course of this project.

What do you plan to deliver at the end of the semester? How would you present the outcome of your study? How would you demo your work? What will you place on your website?

I will visualize the results in a website, and a report obtained through my understanding. Future suggestions for a particular user would be output for the project.

What are the challenges in this project?

Identifying the hidden patterns between the users and representing the associated information.

How do you plan to address the challenges? How would you design and implement the solution?

By implementing the classification technique, I will categorize the data of users and their behaviour from the available yelp data-set and by implementing link analysis, I wish to create a network through which I will be connecting the different users.

The design and the implementation of the proposed project would rely on how effectively a network is constructed between the different users. Considering the multiple factors like check-ins, tips, reviews and positive or negative feedbacks given by users I categorize them and form the network.

How would you evaluate the efficacy of your solution?

A layman can consider the same previous check-ins or the type of reviews the people within the network have as a characteristic feature. A better evaluation would be finding out the similarities of the details from the information and by linking all the factors that bring them along. The more they are similar the same network they belong to.

How would you partition the tasks and coordinate among team members?

Project purpose is to find un-identified similarities between the users, the following could be considered as tasks,

- Understanding the reviews, ratings to categorize the users.
- Create a network of users considering different patterns.
- Linking their experiences to give better future suggestions.

Since I wish to do the project alone, work is not distributed with others.