P.U.R.E. Research Plan Form

Mentee Information

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Date: 09/26/2014

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Date: 09/26/2014

Faculty Advisor: Dan Roth

Fall 2014 Research Plan

1) Write a brief outline of your research plan:

Research Topic: Natural language processing and text extraction

a. Project Name: FlagWall
b. Main functions: FlagWall is an application that helps students get information of events that match their preferences, including interests, types, departments, food and time availability and etc. FlagWall also allows individuals and organizations to post events.
c. Plan:
   • Use Java to extract text information from various sources including Illinois calendar, newsletter, posters and social network posts
   • Perform Natural Language Processing methods to analyze the event information paragraphs to retrieve event attributes: location, data, time, topics, food availability, departments and so on
   • Use Machine Learning and NLP methods to predict the user’s interests and find the potential events that the user might be interested in from internet
   • Optimize sorting using Machine Learning methods

2) What do you hope to learn and achieve by the end of the semester?
   • Improve Java programming skills and web programming skills including PHP, SQL, html and css
   • Understand the principles behind Natural language Processing
   • Know how to apply the methods of Natural Language Processing
   • Learn how to optimize sorting using algorithms

Mentee Signature: Jiarui Xu
Mentor Signature: Daniel Khashabi

Date: 09/26/2014