ECT584 Project Proposal

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* Project description：

This project is an implementation project, the purpose of project is to build a class recommender system for the DePaul student with a major in computer science, predicative analysis and ECT.

* Proposed methodology

The major methodology of the recommend system will be content-based filtering, since there are not much user preferences data available, but there are data on the course description and instructors. But the methods will not be limited to content-based filtering, some other method are possible to be used in the project.

* Techniques, approaches

The main tools in this project will include statistic language like R and scripting language Python, some data visualization packages(ggplot/Matplotlib) and machine learning framework such as sckit-learn will be used as well.

* Resources used

Data source

DePaul course descriptions: <http://www.depaul.edu/university-catalog/course-descriptions/Pages/default.aspx>

DePaul faculty information: <https://www.cdm.depaul.edu/about/Pages/People/Faculty.aspx>

Rate my professor API: <https://www.npmjs.com/package/rmp-api>

* Tentative schedule

2016/5/5 Project Demo

2016/5/12 Collect data and finished data cleaning

2016/5/19 Implement recommender system

2016/5/26 Build the web interface for the system