



No Homework Left Behind!

Automated syllabus date extraction with calendar integration

Introduction

Academic stress and procrastination is the enemy for virtually every student, and it's why we have decided to make **a tool that organizes a student's workload.**

Studies show that **planners improve student performance and satisfaction** at all levels of education.

We are trying to **reduce academic stress induced from numerous assignment due dates.**

[Student Rule 7. Attendance](http://student-rules.tamu.edu/rule07) (<http://student-rules.tamu.edu/rule07>).

Assignments will be accepted late with a 10% penalty per day late. Make-ups in 1 absence will be handled in accordance with Student Rule 7.

Course Topics, Calendar of Activities, Major Assignment

Week	Topic	Rec
1 (May 26-29)	Introduction: What is data? Challenges of Data Collection. Supervised versus unsupervised data collection	Data
1 (May 26-29)	Experiment Design: The importance of randomly split groups. Pre- and post-tests	Exp
2 (June 1-5)	Data Cleaning: Cleaning and preprocessing data. Performing data sanity checks	Data
2 (June 1-5)	Evaluation Part 1: Evaluation algorithms. Accuracy versus F-measure	Eva
2 (June 1-5)	Evaluation Part 2: Proper data handling. Overfitting. Cross-fold validation and validation set	Eva
3 (June 8-12)	Statistics Part 1: Introductory statistics. Population versus sample and intuition for n-1	Stat
3 (June 8-12)	Statistics Part 2: Excel versus Stata. T-tests and paired t-test (from scratch) and their intuition	Stat
3 (June 8-12)	Midterm	No

ASSIGNMENT NAME	DATE	
Introduction: What is data? Cl	5/26/2021	Delete
Experiment Design: The impor	5/26/2021	Delete
Data Cleaning: Cleaning and p	6/1/2021	Delete
Evaluation Part 1: Evaluation :	6/1/2021	Delete
Evaluation Part 2: Proper data	6/1/2021	Delete
Statistics Part 1: Introductory	6/8/2021	Delete
Statistics Part 2: Excel versus	6/8/2021	Delete
Midterm	6/8/2021	Delete

Prior Work

Some tools exist to help students manage their schedules. We wanted to address some of their shortcomings in our design.

Syllabuddy

- + Automatically extracts due dates
- Emails you a .ics file
- No integrated calendar
- Poor accuracy

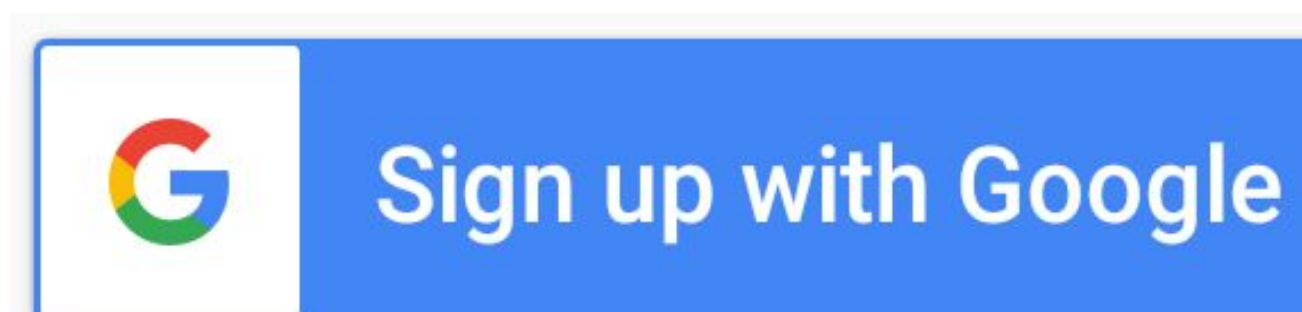
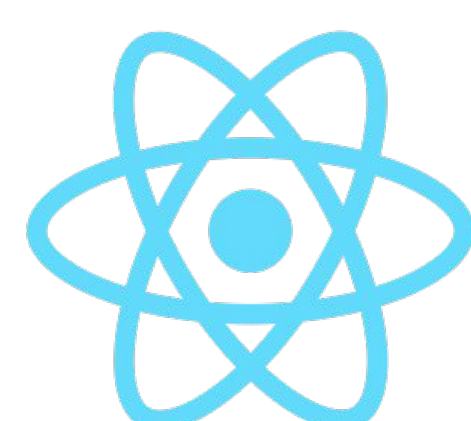
CourseHack

- + Automatically extracts due dates
- Downloadable .ics file
- No integrated calendar
- Halted development; outdated

Methodology

We will apply **natural language processing** to extract text from different document formats using **temporal taggers and named entity recognition algorithms.**

All of the results will be presented to the user and **allow them to confirm, edit, or delete any events to fit their needs.** Afterwards, their Google Calendar will be populated appropriately.



Evaluation

Pre Survey

- Existing planning habits
- Likes and dislikes of current method

User Study

- Create a schedule with existing methods
- Create a schedule with the new tool

Interview

- Likert scale questions
- Quantitative and qualitative questions