## Project Plan

Chih-Kai (Kyle) Chang

## Project choice: Option 3

Perform an analysis of "data scientist" jobs listed on job boards and on the employment pages of major companies. \* What are the most common skills that employers look for? \* What are the most unique skills that employers look for? \* Where are the types of companies that employ the most data scientists?

## Project Plan

- 1. Scrape data from job postings website such as **Indeed.com**, **Glassdoor.com** with search key word Data scientist.
- Use rvest package, and understand the pattern of URLs to scrape job descripiton.
- Sort search results and save them into .csv file.
- 2. Press data
- Create a dataframe that have title, company, industry, city, state, and the link of that job descripiton.
- Scrape requirement skills information from the job link.
- Get coordinate information for U.S. state. (Define those skills that are commonly required or essential for data scientist jobs such as programming skill) (Define what type of programming skill: Jave, Python ect.)
- 3. Explratory analysis
- Find the most related skills identify common and important elements for different website by using barchart.
- Get a rogully idea about how these data scientist jobs distribute around U.S. (ggmap)
- 4. Perform an proper statistical analysis and put analysis result into report.