**Mini Projects Description**

Completing your first project is a major milestone on the road to becoming a data scientist. In the section, we will practice fundamental data analysis. Please choose a topic, form a team, work on specific project, and present your investigation. In the end, teams with good performance would be awarded.

**Operations**:

First, we will teach you how to use Excel and Powerpoint, following with an example.

Second, please form a team and choose a topic for your team. Based on the topic and data collection, the number of team members vary.

Third, follow the description and work on project

Fourth, integrate results from team members and prepare for your presentation

Fifth, present your work in two-to-five minutes (dependent on the team size)

In your presentation, briefly introduce the background, hypothesis or question, method, and results.

**Mini project topics:**

* [Nine or less-member team] Crime investigation: over years, the rate of crimes reduces?

[**http://goo.gl/RPQFLK**](http://goo.gl/RPQFLK)

* [Seven or less-member team] Intelligent transportation system: over years, the service of intelligent transportation system improves?

[**http://goo.gl/yMnHdB**](http://goo.gl/yMnHdB)

* [Six-member team] Walmart sales record for A stores: do holidays bring more money to Walmart? **http://goo.gl/gRwLNY**
* [Six-member team] Walmart sales record for B stores: do holidays bring more money to Walmart? **http://goo.gl/gRwLNY**
* [Six-member team] Walmart sales record for C stores: do holidays bring more money to Walmart? **http://goo.gl/gRwLNY**
* [Six-member team] Walmart sales record for all stores: do holidays bring more money to Walmart? **http://goo.gl/gRwLNY**

**Scoring schema:**

* Finish mini-project in time (20 points)
* Give a presentation (10 points)
* Quality of presentation, including flow and clarity of presentation (10 points)
* Background introduction is clear (10 points)
* Hypothesis or question is clear (10 points)
* Method introduction is clear (10 points)
* Results (30 points)