CS590BD Big Data Analytics and Apps

Fourth Increment
Due: July 28 (M) 2014, Noon

The class project is to be based on *Agile* development techniques. In the first stage, each group has proposed a rough idea of the project they will work on this semester. This can be refined throughout the semester. For each increment hereafter, each group will deliver a set of outcomes related to their project.

The tentative schedule for project development is as follows:
- ~~First Increment: June 20 (F)~~
- ~~Second Increment: June 30 (M)~~
- ~~Third Increment: July 11 (F)~~
- Fourth Increment: July 28 (M) ← this deadline
- Project Video: July 28 (M) ← this deadline
- Project Presentation: July 29 (T) & July 31 (Th)

Each group submits the following items before the submission deadline
(1) Fourth increment project (source code, data, report etc.) to their project Github
(2) GitHub Fourth Increment link to
https://docs.google.com/spreadsheets/d/1AokAxgj_rbE2FM1S5omEhABqQpKXSuXXKAnA7I2gzuI/edit#gid=0
(3) Post your video Youtube Link to
https://docs.google.com/spreadsheets/d/1AokAxgj_rbE2FM1S5omEhABqQpKXSuXXKAnA7I2gzuI/edit#gid=0

Fourth Increment Report
- Project Goal and Objectives
  - Motivation
  - Significance
  - Objectives
  - System Features
- Online Application: Game by Motion
  - Devices/Sensors
  - Motion Models
  - Game Logic/Features
  - Recognition/Analysis Approaches (Workflow, Algorithms, Input/Outputs)
  - System Features and Android App GUI (screen captures)
- Offline Application: Activity Report
  - Devices/Sensors
  - Activity Models
  - Features
  - Recognition/Analysis Approaches (Workflow, Algorithms, Input/Outputs)
  - System Features – Software Architecture, HBase Design and Android App GUI (screen captures)
- Evaluation: Motion/Activity Recognition
  - Number of Users
  - Types of Motions/Activities

- Size of data, Number of Gestures
- Data Preparation (e.g., Cross Validation)
- Accuracy – Precision/Recall/F-Measure
- Limitations
- Project Video
  - Produce a video on your project (Up to 5 minute)
  - Refer to Tutorial 11 on video production
  - Post it to Youtube and share the link
- Related Work
  - Projects done by others (include the URLs in Bibliography)
- Project Planning with Scrumdo (optional)
- Bibliography