CSE 591: Semantic Web Mining, fall 2015

Project Proposal and Homework #2

Due Oct. 2, 2015 (in class)

Points:	HW2 (written report):	100 points (10% of grade)
	Project Proposal (oral presentation):	100 points (10% of grade)
	Total	**200 points (20% of grade)**

Upfront notes:

This assignment is to be performed as a group.

Oral and written portions will be graded separately.

Time will be kept very strict – keep track of time – we will cut you off!

All groups must be present for the entire class period on Oct. 2nd.

All groups must be present the entire class period.

Due Dates:

- Electronic copies of presentation slides and HW2 are due to the TA team (Sultan, sultan.alzahrani@asu.edu and Abhinav, Abhinav.Bhatnagar@asu.edu) by *noon*, Oct. 2nd, 2015. The TA will access your slides on the classroom computer.
- Students must bring a hardcopy of HW2 for turn-in on Oct. 2nd, 2015
- Presentations will occur in-class on Oct. 2nd, 2015
- The normal late policy (loss of 10% of grade per day late) for HW2 only. *Teams who do not submit their slides on time or do not have at least 40% of their team in class on Oct. 2nd to present will receive a score of zero for the proposal.*

Academic integrity:

Academic integrity: This project will be performed within the standards of Arizona State University's academic integrity policies (https://provost.asu.edu/academicintegrity). We also provide the following academic integrity guidelines specific to **this project:**

- **The work will be performed as an group – but only within your specified group unless you obtain prior authorization from the instructor.**
- **Certain types of source-code usage is permitted, provided it is appropriately documented and referenced.** Source code used as part of a standard toolkit (i.e. Weka, NetworkX, SNAP, etc.) is permitted and students will not be penalized for such usage. Use of small source-code snippets for help with language-specific questions (i.e. Stack Overflow) is also permitted). Students will generally not be penalized for use of such code. However, either of these usages of external code must be documented and you must be upfront about what code/libraries of others is used.
- **Plagiarism in any form is unacceptable. When in doubt document and reference your sources.**

What needs to be included in BOTH the document (HW2) and presentation:

Define, in precise terms, the problem you are trying to solve and briefly articulate your vision for your operational prototype you will have created by the end of the semester.

How is your team task-organized to solve this problem?

What approaches are you looking to use to solve this problem? You must *provide evidence that these approaches are viable.*

What data are you collecting to test this approach? Will there be differences in the data used to test the system when compared to the data your system will obtain when it is operational?

Throughout addressing the above requirements, highlight relevant papers from the literature that you have reviewed and the work you have accomplished so far.

Presentation Order:

Your team will have **12 minutes to present, maximum.**

There will be additional 4 minutes allocated for the instructor to ask questions.

All groups must attend the entire class meeting on Oct. 2nd.

We will strictly follow timeline as shown in next table.

TAs will serve as timekeepers and help accommodate groups.

Group number	Topic title	(Latest) Starting Time
1	Collaborative filtering and social influence	1:30:00
2	Collaborative filtering network structure learning	1:46:30
3	Geolocation of microblog users	2:03:00
4	Geolocation of photo-sharing users	2:19:30
5	Discovering unexpected communities in social media	2:36:00
6	Sentiment analysis based on word-relationships (i.e. Senti-net)	2:52:30
7	Sentiment for popularity prediction	3:09:00
8	Identifying the use of persuasion in social media	3:25:30
9	Darkweb mining	3:42:00
10	Cascade prediction	3:58:30
--	Class ends	4:15:00

Specific Guidance for the Presentation:

The presentation must be in either PowerPoint (ppt, pptx) or Adobe Acrobat (pdf) format – no other formats will be accepted.

At least 40% of your team must have an active, speaking role in the presentation.

Slides must be crisp, with bullet text and readable graphics.

Slides will *not* contain excessive text or unreadable figures.

Slides must be free of grammar, spelling, and format errors.

The presentation must be **extremely well rehearsed.** Students are encouraged to practice in a similar classroom before-hand.

Specific Guidance for HW2:

A hardcopy of the report must be submitted in-class on Oct. 2nd.

An electronic copy of the report in PDF format must be submitted to the TA team with the presentation (No later than noon on Oct. 2nd)

HW2 will be two-pages in IEEE 2-column format.

The document must be fully referenced, but contain no more than 12 references (fewer than 5 references is not encouraged).

The write-up must have an abstract

IEEE format can be found here:
http://www.ieee.org/conferences_events/conferences/publishing/templates.html.

The use of LaTex or Microsoft Word is highly encouraged.