Reflection on Research Paper(s)

Topic I: Apache Spark

Research Paper(s) Reflection: The Final Capstone Project

DUE Date: See Moodle Calendar

Estimated Time: 2 hours per team member

Type: TEAM submission (see Team Logistics under Resources → Resources → Syllabus) on what and how to submit for the Team-based Assignments

Submission: A single PDF file via Moodle and Excel TeamAssignmentTemplate.xls

You must **reference all your sources** appropriately. Furthermore, you must answer all the questions **in your own words**. **Copying verbatim from any source will result in a grade of zero in the assignment and a report of academic integrity violation**.

Read of the following paper:

Paper #1: Collaborative Filtering for Implicit Feedback Datasets

Answer the following questions (<2 pages):

Non-PhD Students:

1. What are the unique characteristics of Recommendation Systems with implicit feedback compared to the explicit feedback?
2. What negative effects are inherent in the data used for the study and how the authors addressed/overcame the issues?
3. How is the evaluation methodology described in the paper similar to or different from the evaluation methodology described in your Recommendation System with Apache Spark Project? Can you comment on the merits (i.e., pros and cons) of each?

PhD Students:

1. Formally define the problem formulations that the authors considered/discussed in the paper: both successful and unsuccessful ones.
2. Explain the rationale behind each of these problem statements and the reasons for the observed performance.
3. Can you think of and suggest another reasonable approach of evaluating the methodology different from the ones discussed in the paper and proposed in your Recommendation System with Apache Spark Project?