DATA5000, Winter 2024
Introduction to Data Science

Lectures
Thursdays 11:35-2:25 pm
Start date: January 11
Location: check Carleton Central for room location

Course Website
http://people.scs.carleton.ca/~majdkomeili/Teaching/DATA5000-W24/home.html

Instructors
Majid Komeili
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Teaching Assistant
TBA
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Course Description
The course covers topics relevant to data science: working with data, exploratory data analysis, data mining, machine learning. The concepts are illustrated using the R language. Students also receive hands-on tutorials to IBM Cognos Analytics, Microsoft Azure, etc. Students will be evaluated by their course projects. The course will be lecture-based and will also offer some hands-on tutorials. The project component will be flexible and will involve data collection, manipulation, and analysis.
Tentative Course Schedule

- Thursday January 11, 2021 - Lecture 1: What is Data Science?
- Thursday February 1, 2020 - Lecture 4: Data Mining and Machine Learning I.
- Thursday February 8, 2020 - Lecture 5: Machine Learning II.
- Thursday February 15, 2020 - Paper presentations.
- Thursday February 22, 2020 – No Class (Winter Break)
- Thursday February 29, 2020 - Microsoft Azure Tutorial.
- Thursday March 7, 2020 - IBM Cognos Analytics Tutorial
- Thursday March 14, 2020 - Tableau Tutorial.
- Thursday March 21, 2020 - Guest Lecture.
- Thursday March 28, 2020 - NO Class (in lieu of Data Day).
- Thursday April 4, 2020 - Project Presentations.

Check the course website for the Up-to-date schedule.

Evaluation

- Project proposal: 10% (due January 25, 11:59 PM)
- Paper presentation: 10% (paper selection due February 1)
- Poster draft: 5% (due March 12, 11:59 PM)
- Poster submission: N/A (due March 19)
- Poster presentation: 10% (TBD, on Data Day)
- Project presentation: 15% (in class on April 4)
- Project report: 50% (due April 11, 11:59 PM)

Academic Integrity

Academic Integrity is everyone’s business because academic dishonesty affects the quality of every Carleton degree. Each year students are caught in violation of academic integrity and found guilty of plagiarism and cheating. In many instances they could have avoided failing an assignment or a course simply by learning the proper rules of citation. See the Academic Integrity for more information.

Information on Academic Accommodations

Requests for Academic Accommodation
You may need special arrangements to meet your academic obligations during the term. For an accommodation request, the processes are as follows:

Pregnancy obligation
Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website: carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf
Religious obligation
Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website: carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf

Academic Accommodations for Students with Disabilities
If you have a documented disability requiring academic accommodations in this course, please contact the Paul Menton Centre for Students with Disabilities (PMC) at 613-520-6608 or pmc@carleton.ca for a formal evaluation or contact your PMC coordinator to send your instructor your Letter of Accommodation at the beginning of the term. You must also contact the PMC no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable). After requesting accommodation from PMC, meet with your instructor as soon as possible to ensure accommodation arrangements are made. carleton.ca PMC

Survivors of Sexual Violence
As a community, Carleton University is committed to maintaining a positive learning, working and living environment where sexual violence will not be tolerated, and is survivors are supported through academic accommodations as per Carleton’s Sexual Violence Policy. For more information about the services available at the university and to obtain information about sexual violence and/or support, visit: carleton.ca/sexual-violence-support

Accommodation for Student Activities
Carleton University recognizes the substantial benefits, both to the individual student and for the university, that result from a student participating in activities beyond the classroom experience. Reasonable accommodation must be provided to students who compete or perform at the national or international level. Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. https://carleton.ca/senate/wp-content/uploads/Accommodation-for-Student-Activities-1.pdf

For more information on academic accommodation, please contact the departmental administrator or visit: students.carleton.ca/course-outline