MBAD6201-U90/DSBA 6201-U90
Business Intelligence and Analytics
Spring 2022

<table>
<thead>
<tr>
<th>Instructor:</th>
<th>Prof. Lina Zhou</th>
<th>Email:</th>
<th><a href="mailto:lzhou8@uncc.edu">lzhou8@uncc.edu</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Class Format:</td>
<td>Zoom or City Center 902</td>
<td>Class Hours:</td>
<td>Tu 5:30PM – 8:15PM</td>
</tr>
<tr>
<td>Teaching Assistant:</td>
<td>Vathsavi Venkat</td>
<td>Email:</td>
<td><a href="mailto:vvenka10@uncc.edu">vvenka10@uncc.edu</a></td>
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<tr>
<td>Office Hours:</td>
<td>T 1:00 – 2:30 pm; R 1:00 – 2:30 pm or by appointment (Zoom meetings)</td>
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<td>Content Access:</td>
<td>Canvas (canvas.uncc.edu)</td>
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Course Description
An overview of the business approach to identifying, modeling, retrieving, sharing, and evaluating an enterprise’s data and knowledge assets. Focuses on the understanding of data and knowledge management, data warehousing, data mining (including rule-based systems, decision trees, neural networks, etc.), and other business intelligence concepts. Covers the organizational, technological and management perspectives.

Prerequisites: MBAD 5121 or equivalent

Course Objectives
Business intelligence (BI) is a broad category of applications and technologies for gathering, storing, analyzing, and providing access to data to help enterprise users make better business decisions. BI applications include the activities of decision support systems, query and reporting, online analytical processing (OLAP), statistical analysis, forecasting, and data mining. The learning objectives of the course are thus:

1. To understand the role of business intelligence and analytics in today’s competitive and turbulent business environment.
2. To be familiar with the terminology of the field, basic principles, and concepts of business intelligence and analytics.
3. To learn how to use and apply key methods for analytics (e.g., regression, decision trees, clustering, and association rule).
4. To use a range of tools (e.g., R and SAS Enterprise Guide/Enterprise Miner) appropriate for data analytics problems.

Course Material
Slides, assignments, and online resources will be posted on Canvas.
Bootcamp (available as two separate Canvas courses) on Statistics and R.

There are no required textbooks for the class. The following are recommended texts:
• *Data mining: concepts and techniques* by Jiawei Han, Micheline Kamber, and Jian Pei. Elsevier, 2011, ISBN-13: 978-0123814791 (E-book is available online)

**Course Grading**

Each student can earn a maximum of 400 points (100%) by completing the required tasks successfully. A letter grade will be awarded at the end of the semester as your final grade based on your total points.

<table>
<thead>
<tr>
<th>Item</th>
<th>Points in Final Grade</th>
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<tbody>
<tr>
<td>Exams</td>
<td>240</td>
</tr>
<tr>
<td>Assignments</td>
<td>75</td>
</tr>
<tr>
<td>Datacamp Courses</td>
<td>8</td>
</tr>
<tr>
<td>Class Participation</td>
<td>17</td>
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<tr>
<td>Group Project</td>
<td>60</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>400</strong></td>
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Final letter grade will be calculated based on the following scale:
- A: 360 and above;
- B: 320 to less than 360;
- C: 280 to less than 320;
- U: less than 280;

The course grades are posted on Canvas for informational purposes only. The official overall grade is computed and kept in the instructor’s grade book.

**Exams**

There will be two exams: the mid-term exam and the final exam (240 pts). The exams may contain material that is not in the slides or handouts but would be covered in the class. The exams will be **closed book and notes** when they are administered in class. Any changes to the above exam settings will be informed by the instructor in class and/or through announcements.

The submission type of both exams is individual. Collaboration between or among students are prohibited and students must follow UNCC’s Code of Student Academic Integrity ([https://legal.uncc.edu/policies/up-407](https://legal.uncc.edu/policies/up-407)). The instructor will keep all exams. However, exam reviews are available during office hours or by appointment for 10 days after exam grades are posted.

**Missed exams**: In the event that an excused absence with proper supporting documentation is **approved before the exam time**, the student will be given a make-up exam. Missing an exam without prior approval or without providing proper supporting documentation will receive a grade of zero for that exam. It is the student’s responsibility to be aware of and follow the attendance and participation policy and no special accommodations will be made for any exceptions. No makeup exam will be given after the last day of class.

Exams take a lot of time and effort to prepare and, as a form of intellectual property, belong to those who create them (i.e., professors). Consequently, students are not allowed to copy or record any exam questions. **Any violation of these requirements** will be considered theft of intellectual property and will result in an exam grade of zero automatically and warrant further disciplinary actions.
Assignments
There will be five individual assignments (75 pts) throughout the semester. The tentative due dates of all assignments are provided in the table on the last page of this syllabus. Assignments are due at 5:30pm EST on the due date. In the case of a late submission on the same day, 20% of the points earned from the submission will be deducted. Failing to submit the assignments by the due date will lead to a zero for the assignment.

All the assignments will be individual based. Each student must develop his or her own solutions to the assigned homework. Students may not "work together" on solutions to homework assignments. A student may not use or copy (by any means) another's work (or portions of it) and represent it as his/her own. These academic misconduct will result in a grade of zero for the assignment at a minimum with a possibility for further disciplinary action.

Bootcamp Courses
There are two bootcamp courses you need to take for this course. You are required to complete these courses by January 29.

- Overview of Statistics for Data Science (5 pts)
  You will get a full credit if you get a certificate of completion. Otherwise, partial credit may be awarded depending on the progress/performance of in the course. Estimated time required for completion is 10 hours.
- Introduction to R for Data Science (3 pts)
  You can get a full credit if you successfully complete the first four modules (up to Module 4: Data Import). Estimated time required for completion is 4 hours.

There is no need to submit your certificates or show your progress to receive the credits. The information will be obtained directly from the School of Data Science TA.

Class Participation
Class participation consists of online self-introduction (2 pts), class attendance (5 pts), class discussion (5 pts), and article presentation (5 pts). Students are expected to attend every class and online time and to stay for the duration of the class when it is safe to do so in accordance with university guidance regarding COVID-19. Failure to attend class or arriving late may impact your ability to achieve course objectives. Class attendance will be taken at random in class during the semester. A student’s attendance percentage based on this random attendance is factored into the final grade for class participation. For a class to be considered an excused absence, a printed/electronic note from the related authority is required within a week of the missed class.

Tardiness or early departure is strongly discouraged in this class. Students who arrive more than 10 minutes late or leave lecture before it is complete without notifying the instructor prior to the start of class will receive a reduction in their overall class participation grade. Students are strongly encouraged to engage actively in class discussion, such as asking/answering questions and sharing real-life and work experiences related to the course topics. Online self-introduction will be counted toward class discussion. A student will lose 3 points in class participation if he/she never participated in class discussion.

An absence, excused or unexcused, does not relieve a student of any course requirement. Regular class attendance is a student’s obligation, as is a responsibility for all the work of class meetings, including tests and written tasks. You are responsible for all lecture material regardless of whether you attend each class. Please note that office hours are not to be used as a substitute for class attendance.
To get exposed to the breadth of business intelligence and analytics and to promote knowledge sharing, students will be organized into 2-person groups and each group is expected to give a short presentation (5~7 minutes) on a case study or a selected article on business analytics published since 2016.

- The presentations will be scheduled throughout the semester by the instructor.
- The presentation will be based on your selected article from an academic or trade journal or a conference that has used business analytics to solve a real-world problem using one or more datasets. The article or case study should contain significant content.
- Your presentation is expected to cover problem context, methods, and findings from the selected article.
- You can search related articles from the UNCC library web portal and/or Google Scholar using keyword search.
- You are encouraged to prepare a presentation file in support of your presentation. The presentation file should be submitted to Canvas by **5:00pm on the scheduled date of your presentation.**

**Group Project**

Students will form a group of four members to complete a group project (60 points). Each group will select a topic on its own that applies business analytical techniques. The group project consists of four deliverables: group formation, proposal, presentation, and project report. All project deliverables are due at the beginning of the class on the scheduled dates and should be submitted to course canvas. Detailed group project and presentation instructions will be provided as a separate document on Canvas. If necessary, peer reviews will be factored into the grade.

**Important Information and Class Policies**

**Niner Nation Cares**

All students must follow the updates and instructions related to Fall semester reopening posted on [http://ninernationcares.uncc.edu](http://ninernationcares.uncc.edu) and [https://ninernationcares.uncc.edu/students](https://ninernationcares.uncc.edu/students). For your own health and safety and that of your friends and families, make sure to adhere to the health and safety guidelines posted on the above links. Please do not treat these guidelines lightly.

**Face Coverings in Classrooms and Labs**

It is the policy of UNC Charlotte for the Spring 2022 semester that as a condition of on-campus enrollment, all students are required to properly wear CDC-compliant face coverings while in buildings including in classrooms and labs. Failure to comply with this policy in the classroom or lab may result in the student being asked to leave the classroom. If a student refuses to wear a mask and also refuses to leave the classroom, the student will be referred to the Office of Student Conduct and Academic Integrity for charges under the Code of Student Responsibility.

**Attendance and Participation Policy**

Students are expected to attend every class and remain in class for the duration of the session when it is safe to do so in accordance with university guidance regarding COVID-19. Failure to attend class or arriving late may impact your ability to achieve course objectives which could affect your course grade. An absence, excused or unexcused, does not relieve a student of any course requirement. Regular class attendance is a student’s obligation, as is a responsibility for all the work of class meetings, including tests.
and written tasks. Any unexcused absence or excessive tardiness may result in a loss of participation points. Please note that office hours are not to be used as a substitute for class attendance.

Students are encouraged to work directly with the instructor regarding their absence(s). If you are absent from class as a result of a COVID-19 diagnosis or quarantine, please notify your instructor immediately and seek instructions to help you continue to make progress in the course. The specific instructions for this situation will be provided on a case-by-case basis. The final decision for approval of all absences and missed work is determined by the instructor. For absences related to COVID-19, please adhere to the following:

- **If you are sick**: If you test positive or are evaluated by a healthcare provider for symptoms of COVID-19, complete this form to alert the University. Representatives from Emergency Management and/or the Student Health Center will follow up with you as necessary, and your instructors will be notified.

- **If you have been exposed** to COVID-19 positive individuals and/or have been notified to self-quarantine due to exposure, complete this form to alert the University. Representatives from Emergency Management and/or the Student Health Center will follow up with you as necessary, and your instructors will be notified.

To return to class after being absent due to a COVID-19 diagnosis or due to a period of self-quarantine, students should submit an online request form to Student Assistance and Support Services (SASS). Supporting documentation can be attached directly to the request form and should be from a student's health care provider or the Student Health Center, clearly indicating the dates of absences and the date the student is able to return to class. Instructors will be notified of such absences.

Should a student need assistance from the SASS office in verifying an emergency situation, they can submit an online request form and attach supporting documentation. Please note that students are not required to go through the SASS office at any time regarding absence verification, and the SASS office does not have the authority to excuse absences, allow for make-up work, or provide other academic accommodations. The final decision for approval of all absences and missed work is determined by the instructor.

In cases of absence due to pregnancy or parenting (pregnancy, childbirth, false pregnancy, termination of pregnancy, or recovery from any of these conditions), students should contact the Title IX Office to obtain absence verification by completing the form at http://bit.ly/332eaGd.

The United States Department of Education requires UNC Charlotte’s Office of Financial Aid to determine if a student who receives financial aid and fails to earn a passing grade in a course has actually attended and/or completed the course. Because I do not take regular attendance for this course, the date I will report as your last date of attendance will be the latest of the following:

- The date you last participated in an online discussion or activity;
- The date you last submitted an assignment/project/exam/quiz; or
- The date you last initiated contact with me to ask a question about the course or course content.

If you earn an F or U grade, your last date of attendance will be reported to the U.S. Department of Education. This may require you to pay back any financial aid funds received for this course. (For additional information, see Last Date of Attendance FAQs on Registrar's website.)

**Withdrawals**

Students are expected to complete all courses for which they are registered at the close of the add/drop period. If you are concerned about your ability to succeed in this course, it is important to make an appointment to speak with me as soon as possible. The University policy on withdrawal allows students only a limited number of opportunities available to withdraw from courses. It is important for you to understand the financial and academic consequences that may result from course withdrawal.
Class Delivery Method
This class will start with the virtual mode on zoom for the first two weeks and it may switch to the face-to-face mode when it is safe to do so later in accordance with university guidance. If University decides to switch to the face-to-face mode, students are expected to participate in person and there will be no live streaming or recordings of classes. Only in extremely rare situations may a faculty member alter course delivery and only after they have provided appropriate justification that has been reviewed and approved by the dean. Faculty do not have the authority to make course format changes informally without consultation with their dean.

To protect the privacy of other students, students are not permitted to make their own recordings of class sessions or to share or distribute University recordings of class sessions. Students with specific electronic recording accommodations authorized by the Office of Disability Services may record classes; however, the instructor must be notified of any such accommodation prior to recording. Any distribution of such recordings is prohibited. See University Policy 402, Student Education Records (FERPA).

Laptop and Webcam Requirements
All upper-level (including graduate level) business students are required to have their own personal laptop computer. The policy and the minimum system requirements are found at the link https://belkcollege.uncc.edu/laptop-policy. Students in the DSBA program are required to follow the laptop policy here.

Computer Use in Class
Students are permitted to use computers or tablets during class for note-taking and other class-related work only, but this should be done without distracting other students and without distracting you from the topic of discussion. Those using computers during class for work not related to that class must leave the classroom for the remainder of the class period.

Student Support
The details of student support resources available are provided at the following links.
  - Academic support: https://ninernationcares.uncc.edu/students/academic-support.
  - Health support: https://ninernationcares.uncc.edu/health-support-services
  - IT support: https://help.uncc.edu/

Use of Canvas
Canvas will be the website for course information and primary communication channel for this class. You may access UNCC Canvas from My UNC Charlotte (https://my.uncc.edu/) or direct type canvas.uncc.edu. It’s each student’s responsibility to check Canvas regularly and report anything that does not match your own record (e.g., missing or wrong grade) within 10 calendar days since the date of information posting.

Extra Credits
Extra-credit opportunities, if any, will be the instructor’s decision and such opportunities will be presented to the whole class instead of individual students only. Please do not depend on any extra credit opportunities to improve your grade later in the semester.

Team Work
For group activities, each team is responsible for organizing itself, dividing up the work, and deciding how relative contributions should be measured. It is your responsibility to promptly inform the instructor of any dysfunctional team dynamics and to solicit his help.
All team members must
• participate in all team activities equally,
• strive to maintain positive working relationships with other team members,
• assist team members to resolve issues relating to group work, and
• freely express their ideas, thoughts, comments, and constructive criticisms to their team members, me, and the class.

It is the responsibility of the team to ensure that all team members understand all concepts related to the completed projects and presentations.

Academic Integrity
As a program that helps to create business and government leaders, the College of Business has an obligation to ensure academic integrity is of the highest standards. Standards of academic integrity will be enforced in this course.

University regulations will be strictly enforced in all cases of academic irregularities, cheating or plagiarism or any variations thereof. Students assume full responsibility for the content and integrity of the academic work they submit. The guiding principle of academic integrity shall be that a student's submitted work, examinations, reports, and projects must be his/her own or own group work.

Students have the responsibility to know and observe the requirements of The UNC Charlotte Code of Student Academic Integrity available at [http://legal.uncc.edu/policies/up-407](http://legal.uncc.edu/policies/up-407). Specifically, refer to [https://legal.uncc.edu/policies/up-407#c6](https://legal.uncc.edu/policies/up-407#c6) for Prohibited Academic Conduct. This code forbids cheating, fabrication or falsification of information, misuse of academic materials, multiple submission, plagiarism, unauthorized collaboration, and research misconduct. Students are expected to report cases of academic dishonesty they become aware of to the course instructor who is responsible for dealing with them. Additional resources for navigating Academic Integrity cases are available at [https://scai.uncc.edu/academic-integrity](https://scai.uncc.edu/academic-integrity).

For this course, it is permissible to assist classmates in general discussions about the homework. General advice and interaction are encouraged. Each person, however, must develop his or her own solutions to the assigned homework and laboratory exercises. Students may not “work together” on graded assignments. Such collaboration constitutes cheating, unless it is a group assignment. A student may not use or copy (by any means) another's work (or portions of it) and represent it as his/her own. If you need help on an assignment, contact your instructor or the TA, not other classmates.

Any further specific requirements or permission regarding academic integrity in this course will be stated by the instructor, and are also binding on the students in this course.

Students who violate the code can be punished to the extent of being permanently expelled from UNCC and having this fact recorded on their official transcripts. The normal penalty is zero credit on the work involving dishonesty and further substantial reduction of the course grade. In almost all cases, the course grade is reduced to "F."

If you are unclear about whether a particular situation may constitute an honor code violation, you should meet me to discuss the situation. Feel free to discuss the definition of cheating and/or plagiarism with me if you are unclear on these terms or have questions about the acceptability of a particular type of action.

Grade Appeals Policy
If you believe that the grade you received on an assignment or an exam was in error or unfair, you can appeal to the professor in writing within 10 calendar days of posting the grades. The appeal should clearly state the reasons why you believe the grade to be unfair or the nature of the error. Overdue appeals will not be considered.
Incomplete Grade Policy
Receiving a grade of incomplete ("I") is not based solely on a student's failure to complete work or as a means of raising his/her grade by doing additional work after the grade report time. As per university policy, incomplete grades will be granted when a student who is otherwise passing has not, due to circumstances beyond his/her control, completed all the work in the course. The missing work must be completed and the final grade reported within one calendar year from the date on which the “I” grade was recorded. The instructor assigning the “I” grade may specify a shorter time than one year for completion of the work and the assignment of a final grade. If the “I” is not removed during the specified time, a grade of “F”, “U”, or “N”, as appropriate is automatically assigned. Time extensions for the completion of an “I” beyond one year cannot be approved except by special request to the Graduate School under extraordinary circumstances. The grade of “I” cannot be removed by enrolling again in the same course, and students should not re-enroll in a course in which they have been assigned the grade of “I”.

Disability Accommodations
Students in this course seeking accommodations to disabilities must first consult with the Office of Disability Services and follow the instructions of that office for obtaining accommodations. UNC Charlotte is committed to access to education. If you have a disability and need academic accommodations, please provide a letter of accommodation from Disability Services early in the semester. For more information on accommodations, contact the Office of Disability Services at 704-687-0040 or visit their office in Fretwell 230.

Diversity and Inclusion
The Belk College of Business strives to create an inclusive academic climate in which the dignity of all individuals is respected and maintained. Therefore, we celebrate diversity that includes, but is not limited to ability/disability, age, culture, ethnicity, gender, language, race, religion, sexual orientation, and socio-economic status.

Mental Health Services
It is common for college students to experience challenges that may interfere with academic success such as academic stress, sleep problems, juggling responsibilities, life events, relationship concerns, or feelings of anxiety, hopelessness, or depression. If you or a friend is struggling, we strongly encourage you to seek support. Helpful, effective resources are available on campus at no additional cost.

- Visit the Counseling and Psychological Services website at caps.uncc.edu for information about the broad range of confidential on-campus mental health services, online health assessments, hours, and additional information.
- Call CAPS at (704) 687-0311 if interested in scheduling an appointment with a counselor. After-hours crisis support is also available through this phone number.

Title IX Reporting Expectations
UNC Charlotte is committed to providing an environment free of all forms of discrimination and sexual harassment, including sexual assault, domestic violence, dating violence, and stalking. If you (or someone you know) has experienced or experiences any of these incidents, know that you are not alone. UNC Charlotte has staff members trained to support you in navigating campus life, accessing health and counseling services, providing academic and housing accommodations, helping with civil protective orders, and more.

Please be aware that all UNC Charlotte employees, including faculty members, are expected to relay any information or reports of sexual misconduct they receive to the Title IX Coordinator. This means that if you tell me about a situation involving sexual harassment, sexual assault, dating violence, domestic
violence, or stalking, I am expected to report the information to the Title IX Coordinator. Although I am expected to report the situation, you will still have options about how your case will be handled, including whether or not you wish to pursue a formal complaint. Our goal is to make sure you are aware of the range of options available to you and have access to the resources you need.

If you wish to speak to someone confidentially, you can contact the following on-campus resources, who are not required to report the incident to the Title IX Coordinator: (1) University Counseling Center (counselingcenter.uncc.edu, 7-0311); or (2) Student Health Center (studenthealth.uncc.edu, 7-7400). Additional information about your options is also available at titleix.uncc.edu under the “Students” tab.

All students are required to abide by the UNC Charlotte Sexual Harassment Policy and the policy on Responsible Use of University Computing and Electronic Communication Resources. Sexual harassment, as defined in the UNC Charlotte Sexual Harassment Policy, is prohibited, even when carried out through computers or other electronic communications systems, including course-based chat rooms or message boards.

Religious Accommodation for Students Policy
The instructor will observe University Policy 409 (https://legal.uncc.edu/policies/up-409) on matters of religious accommodation. Please note that the procedure prescribed by this policy requires a notice to the instructor prior to the census date of the semester.

Course Changes Disclaimer
The Instructor reserves the right to change the course contents and schedule. Notice of such changes will be made by announcement in class and on the course canvas. It is students’ responsibility to keep up with any changes in the course schedule, contents, and policies by visiting Canvas regularly.

Copyright Ownership in Course Materials
The lectures and course materials, including presentations, tests, exams, outlines, and similar materials, are protected by copyright. The instructor is the exclusive owner of copyright in those materials created by the instructor. You are encouraged to take notes and make copies of course materials for your own educational use. However, you may not, nor may you knowingly allow others to reproduce or distribute lecture notes and course materials publicly without express written consent of the instructor. This includes providing materials to commercial course material suppliers such as CourseHero, Chegg, and other similar services. Students who publicly distribute or display or help others publicly distribute or display copies or modified copies of an instructor’s course materials may be in violation of University Policy 406, the Code of Student Responsibility.

The Belk College of Business strives to create an inclusive academic climate in which the dignity of all individuals is respected and maintained. Therefore, we celebrate diversity that includes, but is not limited to ability/disability, age, culture, ethnicity, gender, language, race, religion, sexual orientation, and socio-economic status.
# Tentative Class Schedule

*** This tentative schedule is subject to change ***

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topics</th>
<th>Assignment</th>
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<tbody>
<tr>
<td>Week 1</td>
<td>Jan. 11</td>
<td>• Introduction</td>
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<td></td>
<td></td>
<td>• Business Intelligence and Analytics Overview</td>
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<tr>
<td>Week 2</td>
<td>Jan. 18</td>
<td>• Analytical Methodology</td>
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<td></td>
<td></td>
<td>• Regression</td>
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<tr>
<td>Week 3</td>
<td>Jan. 25</td>
<td>• Regression</td>
<td>Stats and R Bootcamp</td>
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<tr>
<td>Week 4</td>
<td>Feb. 1</td>
<td>• Data Warehousing</td>
<td></td>
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<tr>
<td>Week 5</td>
<td>Feb. 8</td>
<td>• Classification — Logistic Regression</td>
<td>Regression</td>
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<tr>
<td>Week 6</td>
<td>Feb. 15</td>
<td>• Classification — Naïve Bayes, KNN, ...</td>
<td>Data Warehousing</td>
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<tr>
<td>Week 7</td>
<td>Feb. 22</td>
<td>• Classification — Mode Evaluation</td>
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<tr>
<td>Week 8</td>
<td>Mar. 1</td>
<td>Exam 1</td>
<td></td>
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<tr>
<td>Week 9</td>
<td>Mar. 8</td>
<td>Spring Break, no class. ☺</td>
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<tr>
<td>Week 10</td>
<td>Mar. 15</td>
<td>• ROC</td>
<td></td>
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<td></td>
<td></td>
<td>• Decision Trees</td>
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<tr>
<td>Week 11</td>
<td>Mar. 22</td>
<td>• Decision Trees</td>
<td>ROC</td>
</tr>
<tr>
<td>Week 12</td>
<td>Mar. 29</td>
<td>• Association Rule Mining</td>
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<td>Week 13</td>
<td>Apr. 5</td>
<td>• Association Rule Mining</td>
<td>Decision Tree</td>
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<td>• Clustering</td>
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<tr>
<td>Week 14</td>
<td>Apr. 12</td>
<td>• Clustering</td>
<td>Association Rule</td>
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<td>Week 15</td>
<td>Apr. 19</td>
<td>• Neural Network</td>
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<td></td>
<td></td>
<td>Group Project Presentations</td>
<td></td>
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<tr>
<td>Week 16</td>
<td>Apr. 26</td>
<td>Group Project Presentations</td>
<td></td>
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<tr>
<td>Week 17</td>
<td>May 3</td>
<td>Exam 2</td>
<td></td>
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<tr>
<td>Week 18</td>
<td>May 10</td>
<td>Comprehensive Final Exam (Optional)</td>
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