Data Mining Techniques (Spring 2024)

Instructor: **Ni, Karl**
Subject: **CS**
Catalog & Section: **6220 01**
Course ID: **39712**
Objectives:

Enrollment: **20**
Responses Incl Declines: **19**
Declines: **0**

Instructor Related Questions: Karl Ni (23 comments)

Q: What were the strengths of this course and/or this instructor?

1	The homework is ready informative, and can help us to deepen waht we learned in class
2	Professor Ni knows this field well and is extremely patient, willing to help
3	The organization and structure of the course are commendable, offering a clear pathway through the complexities of the subjects covered. The instructor's expertise in these areas is evident and greatly appreciated. It would be beneficial if this depth of knowledge could be leveraged more through practical demonstrations and interactive sessions rather than traditional lecturing. This approach would not only showcase the instructor's skills but also enhance our learning experience by providing more opportunities for hands-on practice and direct engagement with the material.
4	Professor Ni's kindness and willing to help student is the most important.
5	Clear logic, useful content
6	He is well prepared for the class and can explain the material clearly.
7	Professor Ni is a good person in general, he put a lot of efforts in lecture.
8	Professor Ni is knowledgable and well prepared. He shared a lot of industry level data mining and ml knowledge to us.
9	The professor is very friendly and knowledgeable. The lectures are structured well.
10	Professor had very good knowledge and know what is beneficial to students
11	The instructor is knowledgeable, friendly and helpful.

Q: What could the instructor do to make this course better?

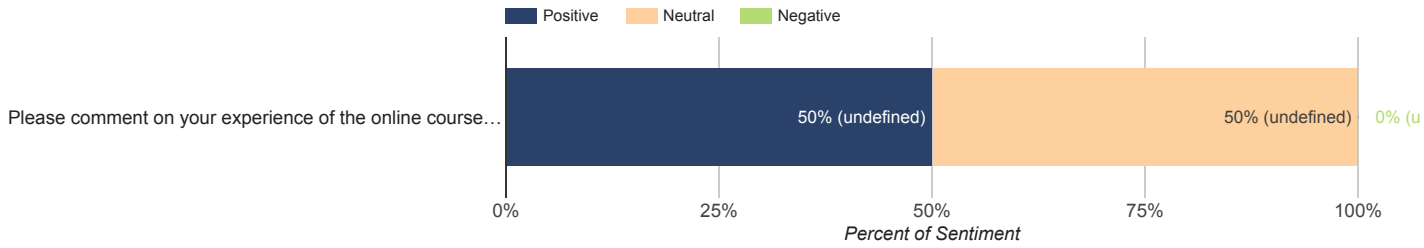
1	Give more syntax or grammar explanations when using numpy in labs
2	I believe in the philosophy of "less is more" when it comes to education, especially regarding our curriculum. By narrowing the scope of subjects, we could provide a more focused and in-depth exploration of key concepts. For instance, our sessions on map reduce, Spark, and associative rules were quite beneficial because they allowed us to engage deeply with the material, providing us with practical learning experiences. However, some of the lectures, particularly those covering various machine learning concepts, felt more like a broad overview than a deep dive. The presentations were so densely packed with information that it became challenging to thoroughly understand and apply the concepts discussed. This approach often presented topics that, realistically, would require a full course or several weeks to adequately cover, especially in machine learning. Moreover, the format of delivering copious amounts of information within a three-hour lecture, without breaks, hindered our ability to digest and retain the material. A more streamlined curriculum, focusing on fewer topics but with more hands-on application and discussion, could significantly enhance our learning experience and mastery of critical concepts. Including more topics where we can actively learn something, akin to our sessions on Spark and associative rules, would greatly benefit the overall educational journey.
3	Maybe for some practical applications, we can go deeper instead of feeding us too much concept, because just get to know something is easy but get some hands on experience can be hard.
4	Providing records may helps a lot
5	Provide more guidance for the lab during the course.
6	I think it will be better if professor Ni spend more time in what he is trying to teach (Key points) in the class would be great. Since most of our lectures a little bit on the basic side, not that many time besides in-class lab I feel I really learn.
7	the exam is a little bit too hard for students who are not familiar with math

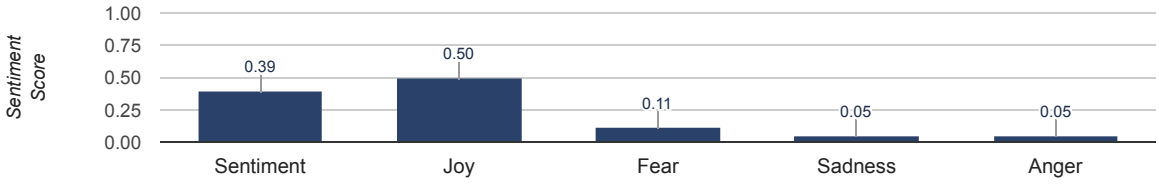
Q: Please expand on the instructor's strengths and/or areas for improvement in facilitating inclusive learning.

1	Less math concepts and more practical coding exercise
2	ChatGPT Building on the previous points about streamlining the curriculum to focus on in-depth exploration and practical application of key concepts, I also advocate for a shift in the assessment strategy towards a more balanced approach. Specifically, there should be a greater emphasis on assignments and projects, and a reduction in the weight attributed to exams. This change would not only align with the enhanced learning experience gained from focused topics such as map reduce, Spark, and associative rules, where practical learning was most effective, but also address the challenges posed by densely packed lectures on complex subjects like machine learning. By increasing the number and scope of assignments, students would have more opportunities to apply what they've learned in a practical context, reinforcing their understanding and skills. Furthermore, projects offer a platform for students to engage deeply with the material over a longer period, encouraging exploration, innovation, and the application of comprehensive knowledge and skills to solve real-world problems. Shifting the assessment focus towards projects and assignments, and away from heavily weighted exams, could foster a more engaging and effective learning environment. This approach would not only enhance students' mastery of the subjects but also better prepare them for the practical challenges they will face in their future careers.
3	Class material, slides and especially class practice can be more related to homework
4	He can't be better, he is a legend
5	Probably a stand alone lab session before or after the class with professor guiding it will be great.

Questions to Assess Students' Online Experience (6 comments)

Q: Please comment on your experience of the online course environment in the open-ended text box.





1	Professor posted updates on teams and students can raise questions for discussion on teams ★★★☆☆
2	N/A ★★★☆☆
3	Organized and well thought out. ★★★☆☆
4	I hope some of the slides can include more detail, especially for practice/example problems. ★★★★☆
5	it is great ★★★★★
6	I would suggest more hands-on experiences for all students in the class would be great. ★★★★★

Student Self-Assessment of their Effort to Achieve Course Outcomes (6 comments)

Q: What I could have done to make this course better for myself.

1	Find more related resource to learn for each topic
2	The class is very informative but it takes a lot more time to self-study some concepts and applications deeply.
3	Providing records may be better
4	More hands-on practice with guidance during the course.
5	Probably more time practice will be good
6	Actually practice