

Virginia Tech
Fall 2021 VT Student Perceptions of Teaching (SPOT)

Course: CS_4824_91322_202109: Machine Learning-CS_4824_91322_202109
 Instructor: Ming Jin *
 Response Rate: 32/44 (72.73 %)

1 - Please indicate the extent to which you agree or disagree with each of the following statements:

1A - The instructor was well prepared.

Ming Jin

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Strongly disagree	(1)	1	3.23%		5.26	5.20	5.24					
Disagree	(2)	0	0.00%		Question	College	Department					
Somewhat disagree	(3)	0	0.00%		Mean	STD	Median	Department	Mean	STD	Median	
Somewhat agree	(4)	3	9.68%		31/44 (70.45%)	5.26	1.03	5.00	22610	5.20	1.12	6.00
Agree	(5)	12	38.71%		6.00	3303	5.24	1.09	6.00			
Strongly agree	(6)	15	48.39%									

1 - Please indicate the extent to which you agree or disagree with each of the following statements:

1B - The instructor presented the subject matter clearly.

Ming Jin

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Strongly disagree	(1)	0	0.00%		5.00	4.98	5.02					
Disagree	(2)	1	3.23%		Question	College	Department					
Somewhat disagree	(3)	1	3.23%		Mean	STD	Median	Department	Mean	STD	Median	
Somewhat agree	(4)	8	25.81%		31/44 (70.45%)	5.00	1.06	5.00	22465	4.98	1.28	5.00
Agree	(5)	8	25.81%		5.00	3277	5.02	1.27	5.00			
Strongly agree	(6)	13	41.94%									

1 - Please indicate the extent to which you agree or disagree with each of the following statements:

1C - The instructor provided feedback intended to improve my course performance.

Ming Jin

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Strongly disagree	(1)	1	3.13%		4.75	4.94	4.91					
Disagree	(2)	0	0.00%		Question	College	Department					
Somewhat disagree	(3)	4	12.50%		Mean	STD	Median	Department	Mean	STD	Median	
Somewhat agree	(4)	8	25.00%		32/44 (72.73%)	4.75	1.27	5.00	22445	4.94	1.30	5.00
Agree	(5)	7	21.88%		4.75	3267	4.91	1.35	5.00			
Strongly agree	(6)	12	37.50%									

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1 - Please indicate the extent to which you agree or disagree with each of the following statements:												
1D - The instructor fostered an atmosphere of mutual respect.												
Ming Jin												
Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Strongly disagree	(1)	1	3.13%		5.38							
Disagree	(2)	0	0.00%			5.32						
Somewhat disagree	(3)	0	0.00%									
Somewhat agree	(4)	2	6.25%									
Agree	(5)	11	34.38%									
Strongly agree	(6)	18	56.25%									
					0	25	50	100	Question	College	Department	
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
32/44 (72.73%)	5.38	1.01	6.00	22424	5.32	1.06	6.00	Department	5.29	1.10	6.00	

1 - Please indicate the extent to which you agree or disagree with each of the following statements:												
1E - Overall, the instructor's teaching was effective.												
Ming Jin												
Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Strongly disagree	(1)	1	3.13%		4.97							
Disagree	(2)	0	0.00%			4.97						
Somewhat disagree	(3)	3	9.38%									
Somewhat agree	(4)	4	12.50%									
Agree	(5)	11	34.38%									
Strongly agree	(6)	13	40.63%									
					0	25	50	100	Question	College	Department	
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
32/44 (72.73%)	4.97	1.20	5.00	22321	4.97	1.31	5.00	Department	4.95	1.35	5.00	

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2 - 2A - What did the instructor do that most helped in your learning?

Ming Jin

Response Rate 24/44 (54.55%)

- Was receptive to new ideas and enabled good communication
- The instructor took the time to answer questions in class and made sure everyone was caught up before continuing with the content.
- I liked how he presented the topics in real time by using a whiteboard.
- HW is definitely helpful and solidate our understanding to lecture material. Besides, professor could always give us interesting and easy-understand lecture.
- Have scribes posted under files.
- The lectures were clear and focused
- HW assignments
- He provided a lot of examples and worked through different questions. He also utilized polls to quiz us on our understanding and then explained the correct answer.
- Brought enthusiasm to all lectures and did his best to help keep students engaged during morning lectures.
- Recap the material from the previous lecture at the beginning of each lecture.
- He had polls throughout the class and always made sure that students were understanding what he was teaching by asking them to give a thumbs up.
- I liked the actual real-time examples and his style of lecturing. He taught the subject matter well.
- I love the use of the ipad to write out the notes while teaching. The visual aid is awesome.
- He was helpful in office hours
- I did like the scribes a lot, they help generalize the lectures pretty well.
- The instructor was very good at presenting information during class so that we were able to understand everything that was being taught. Additionally, the instructor gave us breaks when he felt that our workloads may be too much.
- He provided Latex notes that were very helpful and was very lenient on deadlines and homework assignments.
- Being flexible about the deadline and coursework
- The scribe for lectures, lecture videos and lecture notes.
- His handwritten powerpoint
- He provided in class demos and posted the code for us to examine.
- Adaptability, responsiveness online, and overall breakdown of concepts was very simple
- Explained topics well and stopped for questions effectively
- Materials explained clear

3 - Please indicate the extent to which you agree or disagree with each of the following statements:

3A - I have a deeper understanding of the subject matter as a result of this course.

Response Option	Weight	Frequency	Percent	Percent Responses	Means								
Strongly disagree	(1)	1	3.23%		4.97	5.08	5.11	Question	College	Department			
Disagree	(2)	0	0.00%										
Somewhat disagree	(3)	1	3.23%										
Somewhat agree	(4)	7	22.58%										
Agree	(5)	10	32.26%										
Strongly agree	(6)	12	38.71%										
					0	25	50	100					
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median		
31/44 (70.45%)	4.97	1.14	5.00	19815	5.08	1.14	5.00	3151	5.11	1.14	5.00		

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Response Rate: 32/44 (72.73 %)

3 - Please indicate the extent to which you agree or disagree with each of the following statements:

3B - My interest in the subject matter was stimulated by this course.

Response Option	Weight	Frequency	Percent	Percent Responses	Means								
Strongly disagree	(1)	1	3.23%										
Disagree	(2)	5	16.13%										
Somewhat disagree	(3)	0	0.00%										
Somewhat agree	(4)	8	25.81%										
Agree	(5)	6	19.35%										
Strongly agree	(6)	11	35.48%										
					0	25	50	100	Question	College	Department		
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median		
31/44 (70.45%)	4.48	1.55	5.00	19707	4.82	1.37	5.00	3127	4.86	1.37	5.00		

4 - 4A - What could you have done to be a better learner?

Response Rate 24/44 (54.55%)

- Prepared better for the first quiz
- I could have gone to class more consistently instead of relying on the lecture videos posted to canvas.
- I could have attended office hours more.
- Definite doing the homework!
- Brushed up on calc.
- Read the textbook more
- None
- I wish I was able to better manage my time so that I could have spent more time taking notes and have a deeper understanding of the subject matter.
- I could have asked more questions during lectures.
- Asked questions more frequently.
- I could have been more active in class and re-watched his lectures to understand the material better.
- I feel like the course structure helped me learn a lot. There were many opportunities to learn and grow more within this course. I felt like I was a good learner. There were times where I missed class, and I wish I could have went more.
- Because the class was super early in the morning, sometimes I only joined the Zoom meetings to fill out the quiz and then later that day I would review the videos online.
- I could have attended all the classes
- Honestly, even though I had two other classes only, one class, Computer Systems, was causing me to focus all my efforts on that singular class so my focus was very divided.
- I could have started the homework's earlier and studied more before the quizzes.
- I definitely could've done some outside research and participated more during class
- Review all the math and stats fundamental and watch some Youtube videos about Machine Learning
- I could have spent more time on understanding the lecture contents.
- Spent more time
- Attend lectures more often. I have insomnia so often times I would go to bed really late.
- Done the readings in addition to attending the lectures
- Attend class more
- Ask more help when run into a problem

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5 - 5A - Please add any additional comments regarding the course and/or instructor here:

Ming Jin

Response Rate 16/44 (36.36%)

- You are absolutely the most nice and patient professor I have ever had!
- Most of my gripe about this course is how the quizzes/tests are structured or worded. Most of the time, it's asking for general trend, but there's usually contradicting evidence/scenarios. Rework to ask the general trend and make clear in course lectures.
- Some of the assignments and communication tools seemed ill-prepared or just unprofessional. The Jupyter notebooks all appeared to be written in python2 which is deprecated in Google Colab. One of the homework files given to us had the answer embedded in the latex file. Additionally, it seemed like the syllabus was wrong sometimes which caused undue stress and confusion.
- Quizzes and assignments could have been more consistent with material discussed in class.
- I wish that there were more opportunities to go to the professor or TA for office hours. It always seemed like there was not enough help being given even though the material is tough to complete. Every time I attended the TA's hours, I was worried I wouldn't be able to ask for help on everything I wanted to because there were time slots to complete all office hours within an hour. I do appreciate Professor Jin's flexibility with deadlines though. He was always very understanding in that aspect.
- He was a good teacher and helped me understand course material well.
- The course is a great introduction and I feel like I learned a ton! Thank you!
- I think the class should be in-person. I think some things are better understood in-person because we can use more examples to explain concepts.
- Thank you for putting up with us. You seem to very much enjoy teaching this subject.
- The deadlines and guidelines for assignments for the final project were not very specific and the assignments were not posted until a couple days before they were due.
- Professor Jin has been one of my favorite professors during my time at VT. He presented topics clearly and was always looking for feedback on how to improve. He was very lenient when it came to extending homework deadlines but I still felt like I learned so much during this class.
- I think it will be better to focus on the real application part. Knowing the fundamental and theoretical is important, but I think we spend too much time on those.
- Everything is okay
- Loved the class! Very informative and overall a great atmosphere. I liked the hands on aspect on the course. I think that it was the most enriching aspect of the class.
- I think SVD was a bit confusing so going over that a little more would have been helpful.
- N/A

6 - 6A - How would you rate the physical environment in which you took this class based upon your ability to see, hear, concentrate, and participate?

Response Option	Weight	Frequency	Percent	Percent Responses	Means						
Very Bad	(1)	0	0.00%		5.19	5.16	5.10				
Bad	(2)	1	3.23%								
Poor	(3)	0	0.00%								
Fair	(4)	5	16.13%								
Good	(5)	11	35.48%								
Very Good	(6)	14	45.16%								
					Question	College	Department				
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
31/44 (70.45%)	5.19	0.95	5.00	19663	5.16	0.98	5.00	3115	5.10	1.02	5.00

7 - 7A - Please add any comments about the physical environment here:

Response Rate 12/44 (27.27%)

- Not applicable. Online course.
- It was an online course
- It was a good environment to be in however it was a little difficult given that I prefer a more in-person environment over a virtual classroom.
- Synchronous virtual lectures can be difficult to plan around. I had a class following this one so I had to be on campus for both, which made finding a quiet area to work in difficult. This made in-class participation even harder as attempting to talk in a quiet study area would be disrespectful to other students who are trying to focus. Overall, if a class is going to be virtual, asynchronous format would be more practical for scheduling purposes.
- The physical environment was respectful and fine.
- The physical environment was via zoom as an online class. I felt like the teacher did a great job based on the situation of distant learning we were in.
- Should be in-person
- N/A
- Good.
- Good
- It was online, neither good nor bad
- Online

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8 - Please indicate the extent to which you agree or disagree with each of the following statements:

I improved my ability to problem solve.

Response Option	Weight	Frequency	Percent	Percent Responses	Means						
Strongly disagree	(1)	0	0.00%			5.10	5.03	5.08			
Disagree	(2)	0	0.00%								
Somewhat disagree	(3)	1	3.23%								
Somewhat agree	(4)	5	16.13%	█							
Agree	(5)	15	48.39%	███							
Strongly agree	(6)	10	32.26%	█████							
					0	25	50	100	Question	College	Department
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
31/44 (70.45%)	5.10	0.79	5.00	19758	5.03	1.10	5.00	3135	5.08	1.09	5.00

8 - Please indicate the extent to which you agree or disagree with each of the following statements:

The textbook or course readings made a valuable contribution to my learning.

Response Option	Weight	Frequency	Percent	Percent Responses	Means						
Strongly disagree	(1)	2	6.45%	█		4.29	4.54	4.69			
Disagree	(2)	3	9.68%	█							
Somewhat disagree	(3)	3	9.68%	█							
Somewhat agree	(4)	7	22.58%	███							
Agree	(5)	8	25.81%	████							
Strongly agree	(6)	8	25.81%	█████							
					0	25	50	100	Question	College	Department
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
31/44 (70.45%)	4.29	1.53	5.00	19631	4.54	1.44	5.00	3118	4.69	1.40	5.00

8 - Please indicate the extent to which you agree or disagree with each of the following statements:

The objectives of the course were clearly explained.

Response Option	Weight	Frequency	Percent	Percent Responses	Means						
Strongly disagree	(1)	1	3.23%			4.90	5.05	5.03			
Disagree	(2)	0	0.00%								
Somewhat disagree	(3)	0	0.00%								
Somewhat agree	(4)	9	29.03%	███							
Agree	(5)	11	35.48%	█████							
Strongly agree	(6)	10	32.26%	█████							
					0	25	50	100	Question	College	Department
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
31/44 (70.45%)	4.90	1.08	5.00	19709	5.05	1.16	5.00	3127	5.03	1.18	5.00

8 - Please indicate the extent to which you agree or disagree with each of the following statements:

The out-of-class assignments were educationally valuable.

Response Option	Weight	Frequency	Percent	Percent Responses	Means						
Strongly disagree	(1)	0	0.00%			4.87	4.97	5.02			
Disagree	(2)	2	6.45%	█							
Somewhat disagree	(3)	2	6.45%	█							
Somewhat agree	(4)	6	19.35%	███							
Agree	(5)	9	29.03%	████							
Strongly agree	(6)	12	38.71%	█████							
					0	25	50	100	Question	College	Department
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
31/44 (70.45%)	4.87	1.20	5.00	19564	4.97	1.23	5.00	3108	5.02	1.21	5.00

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9 - The instructor related theories and concepts to practical issues.

Ming Jin

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Strongly disagree	(1)	0	0.00%			5.16	5.20	5.17	Question	College	Department	
Disagree	(2)	1	3.23%									
Somewhat disagree	(3)	0	0.00%									
Somewhat agree	(4)	4	12.90%	█								
Agree	(5)	14	45.16%	█								
Strongly agree	(6)	12	38.71%	█								
					0	25	50	100				
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
31/44 (70.45%)	5.16	0.90	5.00	22134	5.20	1.08	6.00	3198	5.17	1.08	5.00	

10 - I learned to apply principles from this course to new situations.

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Strongly disagree	(1)	0	0.00%			5.06	5.05	5.05	Question	College	Department	
Disagree	(2)	0	0.00%									
Somewhat disagree	(3)	1	3.23%									
Somewhat agree	(4)	6	19.35%	█								
Agree	(5)	14	45.16%	█								
Strongly agree	(6)	10	32.26%	█								
					0	25	50	100				
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
31/44 (70.45%)	5.06	0.81	5.00	3109	5.05	1.12	5.00	3109	5.05	1.12	5.00	

11 - Select below to indicate your level of assent with the following statement: "In this class, my instructor was approachable and welcoming."

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Strongly Disagree	(1)	0	0.00%			5.32	5.22	5.22	Question	College	Department	
Disagree	(2)	0	0.00%									
Somewhat Disagree	(3)	1	3.23%									
Somewhat Agree	(4)	3	9.68%	█								
Agree	(5)	12	38.71%	█								
Strongly Agree	(6)	15	48.39%	█								
					0	25	50	100				
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
31/44 (70.45%)	5.32	0.79	5.00	3122	5.22	1.12	6.00	3122	5.22	1.12	6.00	

12 - Select below to indicate your level of assent with the following statement: In this class, my experiences encourage me to continue studying computer science.

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Strongly Disagree	(1)	0	0.00%			5.26	4.93	4.93	Question	College	Department	
Disagree	(2)	0	0.00%									
Somewhat Disagree	(3)	2	6.45%	█								
Somewhat Agree	(4)	3	9.68%	█								
Agree	(5)	11	35.48%	█								
Strongly Agree	(6)	15	48.39%	█								
					0	25	50	100				
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
31/44 (70.45%)	5.26	0.89	5.00	3125	4.93	1.30	5.00	3125	4.93	1.30	5.00	

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13 - Select below to indicate your level of assent with the following statement: In this class, the VT Principles of Community were honored.

Response Option	Weight	Frequency	Percent	Percent Responses	Means						
Strongly Disagree	(1)	1	3.23%		5.39	5.46	5.46				
Disagree	(2)	0	0.00%								
Somewhat Disagree	(3)	0	0.00%								
Somewhat Agree	(4)	1	3.23%								
Agree	(5)	12	38.71%								
Strongly Agree	(6)	17	54.84%								
0 25 50 100					Question	College	Department				
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
31/44 (70.45%)	5.39	0.99	6.00	3105	5.46	0.83	6.00	3105	5.46	0.83	6.00

14 - Select below to indicate your level of assent with the following statement: In this class, I felt excluded or marginalized.

Response Option	Weight	Frequency	Percent	Percent Responses	Means						
Not at all	(1)	27	87.10%		1.39	1.51	1.51				
Slightly	(2)	1	3.23%								
Somewhat	(3)	1	3.23%								
Moderately	(4)	0	0.00%								
Very	(5)	1	3.23%								
Extremely	(6)	1	3.23%								
0 25 50 100					Question	College	Department				
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
31/44 (70.45%)	1.39	1.17	1.00	3123	1.51	1.26	1.00	3123	1.51	1.26	1.00

15 - Select below to indicate your level of assent with the following statement: In this class, I witnessed some individuals making derogatory or insulting comments about others.

Response Option	Weight	Frequency	Percent	Percent Responses	Means						
Never	(1)	28	90.32%		1.32	1.37	1.37				
Very rarely	(2)	1	3.23%								
Rarely	(3)	0	0.00%								
Occasionally	(4)	0	0.00%								
Frequently	(5)	1	3.23%								
Very Frequently	(6)	1	3.23%								
0 25 50 100					Question	College	Department				
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
31/44 (70.45%)	1.32	1.14	1.00	3121	1.37	1.14	1.00	3121	1.37	1.14	1.00

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16 - What, if anything, could the instructor have done to improve classroom climate and equity?

Response Rate 13/44 (29.55%)

- I think the instructor did his best given the course was virtual.
- Nothing that I can think of.
- -
- Nothing, Virginia Tech virtues were upheld.
- He did a great job to the best of his ability. Maybe there could have been more polls to improve participation.
- He is doing great
- Nothing
- The class was fine
- N/A
- The instructors did a great job.
- None
- He was great! The students were very professional in their behavior as well. Overall great class.
- Not sure

17 - Please give the name of the first TA, #1, for whom you wish to provide feedback.

Response Rate 14/44 (31.82%)

- Sandesh Jain
- Sandesh Jain
- Sandesh Jain
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- Sandesh Jain
- Sandesh
- Sandesh Jain
- Sandesh Jain

18 - Please select an overall rating for TA #1:

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Very Poor	(1)	0	0.00%		5.06	5.27	5.27					
Poor	(2)	0	0.00%		Question	College	Department					
Fair	(3)	2	12.50%		Mean	STD	Median	Department	Mean	STD	Median	
Average	(4)	1	6.25%		1107	5.27	1.17	6.00	1107	5.27	1.17	6.00
Good	(5)	7	43.75%									
Excellent	(6)	6	37.50%									

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19 - Please explain your rating for TA #1.

Response Rate 9/44 (20.45%)

- I believe Sandesh could have been a little more helpful in the sense by conducting more office hours throughout the week. I also felt very limited with the amount of time I could spend with the TA, and felt rather pressured during office hours to ensure that I asked all my questions before my "allocated time slot" was over.
- He's ok. Not that great of a teacher though.
- He helped explain concepts and spent a good amount of time helping students understand things better about assignments and concepts if they were confused
- Very accommodating for office hours and explained the material well. Great TA!
- Sometimes, Sandesh would explain things really well and other times he would not. I have even caught some mistakes in what he has explained to me in office hours and I would realize these things by myself.
- This TA was very helpful in office hours and on providing feedback.
- He was very helpful the few times I was able to meet him.
- The TA was always very responsive on piazza and was always asking any questions that were asked
- He was very helpful on HW feedback and during office hours.

20 - Please give the name of the second TA, #2, for whom you wish to provide feedback.

Response Rate 1/44 (2.27%)

- N/A

21 - Please select an overall rating for TA #2:

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Very Poor	(1)	0	0.00%									
Poor	(2)	0	0.00%									
Fair	(3)	0	0.00%									
Average	(4)	1	33.33%	█								
Good	(5)	1	33.33%	█								
Excellent	(6)	1	33.33%	█								
					0	25	50	100	Question	College	Department	
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
3/44 (6.82%)	5.00	1.00	5.00	548	5.30	0.97	6.00	548	5.30	0.97	6.00	

22 - Please explain your rating for TA #2.

Response Rate 1/44 (2.27%)

- N/A

23 - Please give the name of the third TA, #3, for whom you wish to provide feedback.

Response Rate 1/44 (2.27%)

- N/A

24 - Please select an overall rating for TA #3:

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Very Poor	(1)	0	0.00%									
Poor	(2)	0	0.00%									
Fair	(3)	0	0.00%									
Average	(4)	1	33.33%	█								
Good	(5)	1	33.33%	█								
Excellent	(6)	1	33.33%	█								
					0	25	50	100	Question	College	Department	
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
3/44 (6.82%)	5.00	1.00	5.00	388	5.16	1.08	5.00	388	5.16	1.08	5.00	

Course: CS_4824_91322_202109: Machine Learning-CS_4824_91322_202109

Instructor: Ming Jin *

Response Rate: 32/44 (72.73 %)

25 - Please explain your rating for TA #3.	
Response Rate	1/44 (2.27%)
• N/A	