Fall 2020 VT Student Perceptions of Teaching (SPOT)

Course: ECE_4424_92192_202009: Machine Learning-ECE_4424_92192_202009

Instructor: Ming Jin *
Response Rate: 17/35 (48.57 %)

1 - Please indicate the exter	nt to which	you agree	or disagre	e with	each of the	follo	owing sta	atem	ents:						
1A - The instructor was wel	l prepared.														
Ming Jin															
Response Option		Weig	ht Frequ	iency	Percent	Pe	ercent Re	espo	nses			Me	ans		
Strongly disagree		(1)	C)	0.00%	1				5.18		5.22	5.13		
Disagree		(2)	C)	0.00%										
Somewhat disagree		(3)	C)	0.00%										
Somewhat agree		(4)	4	1	23.53%										
Agree		(5)	6	3	35.29%										
Strongly agree		(6)	7	7	41.18%						l				
		•		·		0	25	50	100	Question	1	College	Departme	nt	
Response Rate	Mean	STD	Median		College		Mean		STD	Median		Department	Mean	STD	Median
17/35 (48.57%)	5.18	0.81	5.00		25393		5.22		1.02	5.00		2640	5.13	1.14	5.00

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 Percent Responses Means **Response Option** Weight Frequency Percent Strongly disagree 0 0.00% (1) 5.06 5.03 4.93 Disagree (2) 1 5.88% 0 Somewhat disagree (3) 0.00% Somewhat agree (4) 4 23.53% (5) 4 Agree 23.53% Strongly agree (6) 8 47.06% 100 College Question Department Response Rate Median Median STD Median Mean STD College Mean STD Department Mean

17/35 (46.57 %)	5.00	1.14	5.00	20240		5.05	1.17	5.00		2031	4.93	1.23	5.00
1 - Please indicate the exter	nt to which	you agree	or disagre	e with each of the	fol	lowing sta	atements						
1C - The instructor provided	d feedback	intended t	o improve	my course perfor	mar	nce.							
Ming Jin													
Response Option		Weig	ght Frequ	iency Percent	F	Percent R	esponses	;		Me	ans		
Strongly disagree		(1)) (0.00%	1			5.35		4.92	4.00		
Disagree		(2)) (0.00%	1					4.52	4.83	1	
Somewhat disagree		(3) (0.00%	1								
Somewhat agree		(4) 4	23.53%									
Agree		(5) 3	3 17.65%									
Strongly agree		(6)) 1	0 58.82%									
			•		0	25	50 10	Questio	on	College	Departme	nt	
Response Rate	Mean	STD	Median	College		Mean	STD	Median		Department	Mean	STD	Median
17/35 (48.57%)	5.35	0.86	6.00	25255		4.92	1.26	5.00		2631	4.83	1.35	5.00

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Response Rate: 17/35 (48.57 %)

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		Weig	nt Frequ	ency	Percent	Per	cent R	espo	nses			M	eans			
Strongly disagree		(1)	0)	0.00%	1				5.53		5.29	5.	30		
Disagree		(2)	0)	0.00%	1										
Somewhat disagree		(3)	0)	0.00%	1										
Somewhat agree		(4)	3	3	17.65%											
Agree		(5)	2	2	11.76%											
Strongly agree		(6)	12	2	70.59%											
						0	25	50	100	Questio	n	College	Depa	rtment		
Response Rate	Mean	STD	Median		College		Mean	:	STD	Median		Department	Mea	1	STD	Median
17/35 (48.57%)	5.53	0.80	6.00		25216		5.29		1.02	6.00		2627	5.30		1.05	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	Perce	nt Re	sponses		Mo	eans		
Strongly disagree		(1)	0	0.00%				5.24	4.99	4.93		
Disagree		(2)	0	0.00%]					4.55		
Somewhat disagree		(3)	0	0.00%					_			
Somewhat agree		(4)	4	23.53%					_			
Agree		(5)	5	29.41%					_			
Strongly agree		(6)	8	47.06%								
					0 2	5	50 100	Questio	n College	Departme	nt	
Response Rate	Mean	STD I	Median	College	Me	an	STD	Median	Department	Mean	STD	Median
17/35 (48.57%)	5.24	0.83	5.00	25112	4.9	99	1.22	5.00	2620	4.93	1.28	5.00

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

Ming Jin

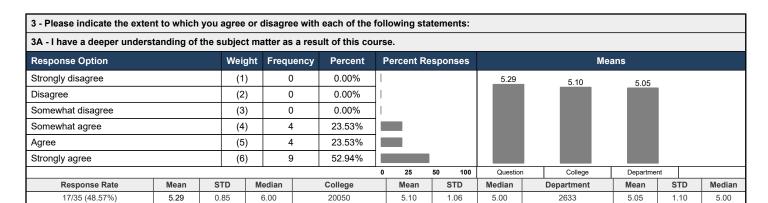
Response Rate 13/35	(37.14%
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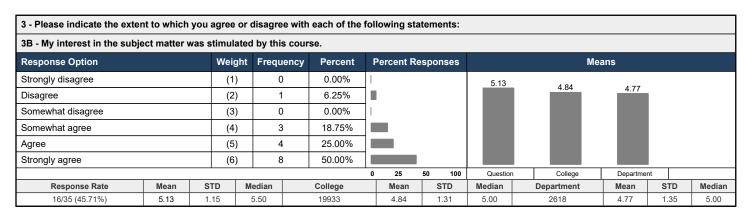
- taught
- Did examples in jupyter notebooks.
- Lectures were well formatted and he communicated very clearly thank you.
- He was kind and fun, which helped me to be excited for class each week. He understood that events outside of Virginia Tech may make it harder for some students to learn, and gave consideration to that.
- Very good lectures.
- Prof. Jin's lectures are extremely useful and well presented. He is also always open to questions.
- Record and post lectures
- Without a doubt, Dr. Jin is the best professor at Virginia Tech.
- · Lecture notes are clear and consistent.
- · homeworks are too hard
- The in class quizzes were good, and the python demos gave me a better idea of how to implement it, rather than just seeing the mathematical aspect of the concepts.
- Cared about students and our understanding
- Dr. Jin was very knowledgeable about the subject and presented it in a manner that made it easier to understand. While machine learning is certainly a difficult topic, Dr. Jin made it manageable.

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

Response Rate 11/35 (31.43%)

- nothing
- NA
- I could have paid attention more in class.
- I could have started the homework assignments earlier.
- Study more. Be more attentive during virtual lectures.
- To ask more questions, and possibly dig deeper into the different subjects.
- Gain a better understanding on deep learning.
- I should have paid closer attention to lectures, and been sure to rewatch lectures that I missed or couldn't put my full attention toward. I also should have started the homework assignments earlier.
- Taken better notes.
- · Participated in class more
- I could have paid more attention in lectures. Often I found myself having to rewatch lectures at a slower pace to catch up on everything, and thus around halfway through the semester I was barely paying attention to lectures as I knew I would have to double back anyway. A defeatist attitude I should have corrected earlier.

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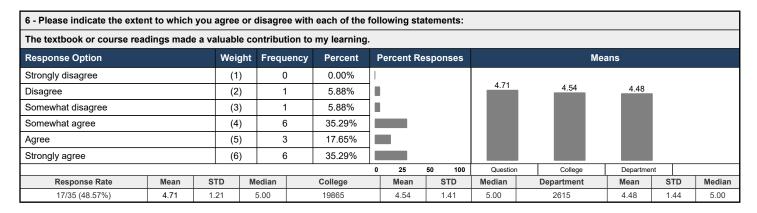
5 - 5A - Please add any additional comments regarding the course and/or instructor here:

Ming Jin

Response Rate 8/35 (22.86%)

- · Good professor, but not the best at explaining details other than math. Also, the whiteboard was often hard to read online.
- I think the in-class quizzes were really stressful. I didn't do well on these and was always disappointed when this happened. I think for me I need some time to digest the material before being quizzed on it. I've had other professors give daily quizzes on lecture days where they were due on canvas by the end of the day, and I think this is a much better model for me personally to foster the best learning experience.
- :thumbs_up:
- · Very good job.
- Prof. Jin continuously updated the course based on students' feedback, which is really helpful.
- could get around to grading assignments faster
- Very knowledgeable, with an apparent desire to share his passion for machine learning topics.
- Dr. Jin's flexibility regarding due dates was greatly appreciated. His adaptability made completing the course assignments interesting, instead of just rushing to meet a deadline.

6 - 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% 5.12 5.03 5.01 Disagree (2)0 0.00% Somewhat disagree (3)0 0.00% Somewhat agree (4) 5 29.41% 5 Agree (5) 29.41% 7 (6) 41.18% Strongly agree 25 50 100 Question College Department Response Rate Mean STD Median College Mean STD Median Mean STD Median Department 5.01 17/35 (48.57%) 0.86 5.00 20019 5.03 1.08

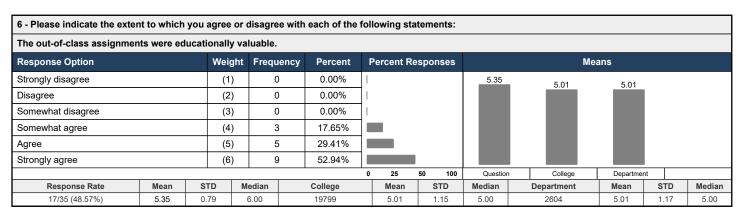


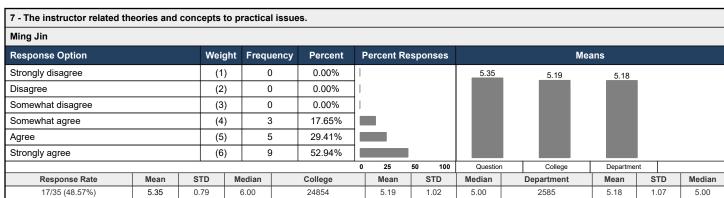
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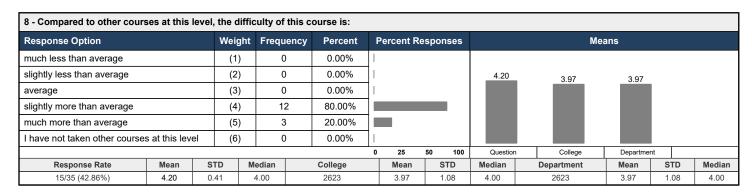
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Instructor: Ming Jin *
Response Rate: 17/35 (48.57 %)

6 - Please indicate the extent to which you agree or disagree with each of the following statements:																
The objectives of the cours	e were clea	arly explain	ed.													
Response Option		Weig	ht Frequ	uency	Percent	P	ercent R	esp	onses			Ме	ans			
Strongly disagree		(1)	()	0.00%	1				5.24	_	5.08	4.98			
Disagree		(2)	()	0.00%								4.00			
Somewhat disagree		(3)	()	0.00%											
Somewhat agree		(4)		3	17.65%											
Agree		(5)	1	7	41.18%											
Strongly agree		(6)	7	7	41.18%											
						0	25	50	100	Question	1	College	Departme	nt		
Response Rate	Mean	STD	Median		College		Mean		STD	Median		Department	Mean	STI)	Median
17/35 (48.57%)	5.24	0.75	5.00		19940		5.08		1.08	5.00		2614	4.98	1.1	5	5.00



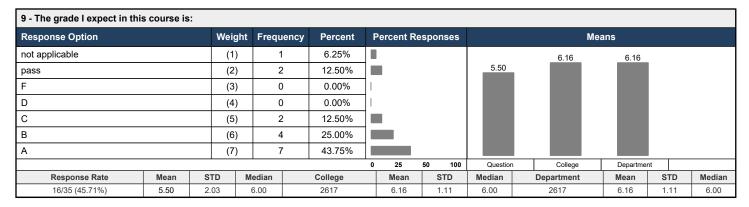




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10 - Approximately how many hours per week outside of class do you spend on homework, reading, and projects for this course?															
Response Option		Weig	ht Frequ	ency Percent	F	Percent Re	esp	onses			Mea	ans			
0-2		(1)	0	0.00%	1										
3-5		(2)	5	29.41%					2.82		3.10	3.10			
6-9		(3)	10	58.82%					2.02						
10-14		(4)	2	11.76%											
15 or more		(5)	0	0.00%	1										
					0	25	50	100	Question	n	College	Departme	nt		
Response Rate	Mean	STD	Median	College		Mean		STD	Median		Department	Mean	STI	D	Median
17/35 (48.57%)	2.82	0.64	3.00	2627		3.10		1.07	3.00		2627	3.10	1.0	7	3.00

11 - At the end of this cou	1 - At the end of this course, how do I rate my ability to:														
Analyze and contrast board classes of machine learning algorithms (supervised vs. unsupervised vs. semi-supervised)															
Response Option		Weig	ght Freq	uency	Percent	Pe	ercent R	espo	nses			Me	ans		
Poor		(1)	0	0.00%					3.25		3.23	3.23		
Fair		(2)	2	12.50%							0.20	0.20		
Good		(3)	8	50.00%										
Excellent		(4)	6	37.50%										
N/A		(0)	0	0.00%	1									
						0	25	50	100	Question	ı	College	Departmer	ıt	
Response Rate	Mean	STD	Median		College		Mean	1	STD	Median		Department	Mean	STD	Median
16/35 (45.71%)	3.25	0.68	3.00		41		3.23	-	0.80	3.00		41	3.23	0.80	3.00

11 - At the end of this cour	se, how do	I rate my a	bility to:										
Describe and apply fundar regularization, cross-validation		epts of lear	ning from	data (maximum li	kelil	hood esti	mation, r	naximum a	poste	riori, overfitting	vs underfi	itting,	
Response Option		Weig	ıht Frequ	ency Percent	Р	ercent R	esponses	;		Ме	ans		
Poor		(1)	(0.00%	1			3.13		3.05	3.05		
Fair		(2)	3	18.75%				0.10		3.05	3.03	l	
Good		(3)	3	50.00%									
Excellent		(4)		31.25%									
N/A		(0)	(0.00%	1							l	
					0	25	50 10	0 Questio	on	College	Departme	nt	
Response Rate	Mean	STD	Median	College		Mean	STD	Median		Department	Mean	STD	Median
16/35 (45.71%)	3.13	0.72	3.00	41		3.05	0.75	3.00		41	3.05	0.75	3.00

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