

Week 2 Quiz

(i) (iii) (ii)

TO	TOTAL POINTS 10			
1.	Machine learning is an "iterative" process, meaning that an Al team often has to try many ideas before coming up with something that's good enough, rather than have the first thing they try work.	1 point		
	True			
	○ False			
2.	Say you want to use Machine Learning to help your sales team with automatic lead sorting. I.e., Input A (a sales prospect) and output B (whether your sales team should prioritize them). The 3 steps of the workflow, in scrambled order, are:	1 point		
	(i) Deploy a trained model and get data back from users			
	(ii) Collect data with both A and B			
	(iii) Train a machine learning system to input A and output B			
	What is the correct ordering of these steps?			
	(i) (ii) (iii)			
	(ii) (i) (iii)			
	(ii) (iii) (i)			

3.	What are the key steps of a Data Science project?	1 point
	Collect data	
	Analyze the data	
	Suggest hypothesis or actions	
	All of the above	
4.	Machine Learning programs can help: (select all that apply)	1 point
	✓ Automate resume screening	
	Automate visual inspection in a manufacturing line	
	Customize product recommendations	
	✓ Automate lead sorting in sales	
5.	Unless you have a huge dataset ("Big Data"), it is generally not worth attempting machine learning or data science projects on your problem.	1 point
	○ True	
	False	

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6.	Say you want to build an AI system to help recruiters with automated resume screening. Which of these steps might be involved in "technical diligence" process? (Select all that apply.)	1 point	
	Ensuring that this is valuable for your business (e.g., estimating the project ROI)		
	✓ Defining an engineering timeline		
	Making sure you can get enough data for this project		
	Making sure that an AI system can meet the desired performance		
7.	Which of these statements about "business diligence" do you agree with?	1 point	
	Business diligence applies only if you are launching new product lines or businesses.		
	Business diligence is the process of ensuring that the AI technology, if it is built, is valuable for your business.		
	Business diligence is the process of ensuring that the envisioned AI technology is feasible.		
	Business diligence can typically be completed in less than a day.		
8.	You want to use supervised learning for automated resume screening, as in the example above. Which of the following statements about the Training Set are true? (Select all that apply.)	1 point	
	☐ The Training set and Test set can be the same dataset.		

	~	It will be used by the AI team to train the supervised learning algorithm.	
	~	It should give examples of both the input A (resume) and the desired output B (whether to move forward with a candidate).	
		It should give examples of the input A (resume) but not necessarily the desired output B (whether to move forward with a candidate).	
9.		r your automated resume screening application, you are now providing a Test Set to the Al team. Which the following statements about the Test Set are true? (Select all that apply.)	int
		The Test Set should ideally be identical to the Training Set.	
	~	It will be used by the AI team to evaluate the performance of the algorithm.	
		It should give examples of the input A (resume) but not necessarily the desired output B (whether to move forward with a candidate).	
	\checkmark	It should give examples of both the input A (resume) and the desired output B (whether to move forward with a candidate)	
1	0. Wh	nich of these are reasons that it's often unrealistic to expect an ML system to be 100% accurate?	int
	\circ	You might not have enough data	
	\bigcirc	Data can be mislabeled	

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()	Data	can	be	mis	al	he	ec

- O Data can be ambiguous
- All of the above.