## Congratulations! You passed!

⊙ Correct

Grade received 85.71% To pass 80% or higher

Go to next item

1.	In ML, data are first-class citizens?    Yes	1/1 point
	○ No	
2.	A data pipeline is a series of data processing steps such as:  Data collection	0 / 1 point
	<ul> <li>correct</li> <li>Way to go! Data collection is the first step in building ML systems.</li> </ul>	
	☑ Data ingestion  ☑ Correct	
	Right on track! Data ingestion is the process of absorbing data from different sources and transferring it to a target site where it can be deposited and analyzed.	
	☑ Data Analysis	
	This should not be selected     Let's recheck that. The predictive signal is extracted from the data through feature selection.	
	☑ Data Preparation	
	<ul> <li>correct         You've got it! Data Preparation consists of data formatting, engineering and feature extraction.     </li> </ul>	
3.	Is the Data pipeline vital for the success of the production ML system?  No	1/1 point
	● Yes  ⊘ Correct	
	Exactly! It consists of the incredibly important steps to the production ML system success.	
4.	What do you apply to maximize predictive signals in your data?	1/1 point
	O Data formatting O Data coverage	
	Feature selection  Feature engineering	
	Correct You've figured it out! Feature engineering is the process of using domain knowledge to extract features with high levels of predictive signal from raw data.	
5.	Your training data should reflect the diversity and cultural context of the people who will use it. What can be done to mitigate inherent biases in a given data set?	1/1 point
	Collect data from equal proportions from different user groups.     Commit to fairness.	
	Adapt to continuously changing data	
	<ul> <li>Engineer better features</li> <li>Correct         Excellent! Balanced sampling from different user groups helps avoid inherent biases.     </li> </ul>	
	<u> </u>	
6.	More often than not, ML systems can fail the users it serves. In this context, what is <b>representational harm?</b> The amplification or negative reflection of certain groups stereotypes.	1/1 point
	Making predictions and decisions that preclude certain groups from accessing resources or opportunities.	
	Giving skewed outputs more frequently for certain groups of users      Inferring prejudicial links between certain demographic traits and user behaviors.	
	<ul> <li>Correct         Good call! This is a prototypical way an ML system may fail the users it serves.     </li> </ul>	
7.	Accurate labels are necessary to properly train supervised models. Many times, human subjects known as raters perform this labeling effort. What are the main categories of human raters? (check all that apply).	1 / 1 point

G000 0	cnoice: Generalists usually come from crowdsourcing sites.
✓ Subject	matter experts
✓ Correct     Nice go	t oingl. A classical example is radiologists labeling medical images for automated diagnosis tools.
✓ Your use	ers
Correct Right o	t choice! Users can provide labels within your application. A classical example is photo tagging.
Loggers	
☐ Aggrega	tors
Classifie	ers