Congratulations! You passed!

Grade received 100% To pass 80% or higher

Go to next item

| Data Collection | |
|---|-------------|
| Total points 7 | |
| 1. In ML, data are first-class citizens? | 1/1 point |
| Yes | |
| ○ No | |
| Correct Just right! Data are entities that support all operations generally available to other entities. | |
| 2. A data pipeline is a series of data processing steps such as: | 1/1 point |
| ☑ Data collection | |
| Correct Way to go! Data collection is the first step in building ML systems. | |
| 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 | |
| ✓ Data Preparation | |
| Correct You've got it! Data Preparation consists of data formatting, engineering and feature extraction. | |
| 3. Is the Data pipeline vital for the success of the production ML system? | 1/1 point |
| Yes | |
| ○ No | |
| 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 |
| Feature engineering | |
| O Data coverage | |
| Feature selection Data formatting | |
| 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. | |
| 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 | |
| Engineer better features | |
| ○ Correct Excellent! Balanced sampling from different user groups helps avoid inherent biases. | |
| | |

6. More often than not, ML systems can fail the users it serves. In this context, what is representational harm?

1/1 point

The amplification or negative reflection of certain groups stereotypes.

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| Making predictions and decisions that preclude certain groups from accessing resources or opp | ortunities. |
|---|------------------------|
| O Giving skewed outputs more frequently for certain groups of users | |
| O Inferring prejudicial links between certain demographic traits and user behaviors. | |
| Correct Good call! This is a prototypical way an ML system may fail the users it serves. | |
| | |
| Accurate labels are necessary to properly train supervised models. Many times, human subjects kno perform this labeling effort. What are the main categories of human raters? (check all that apply). | wn as raters 1/1 point |
| ☑ Generalists | |
| Correct Good choice! Generalists usually come from crowdsourcing sites. | |
| ✓ Subject matter experts | |
| Correct Nice going!. A classical example is radiologists labeling medical images for automated diagnosis | is tools. |
| Your users | |
| Correct Right choice! Users can provide labels within your application. A classical example is photo tag | iging. |
| Loggers | |
| Aggregators | |
| Classifiers | |