

# The Machine Learning Project Lifecycle

1. Which of these are stages of the machine learning project lifecycle? Check all that apply.

- Scoping
- Data
- Configuration
- Modeling
- Deployment

2. Which of these is not an advantage of a typical edge deployment compared to a typical cloud deployment?

- More computational power available
- Lower latency
- Less network bandwidth needed
- Can function even if network connection is down

*Edge deployments are frequently constrained in computational power due to cost, size, and energy requirements of the hardware.*

3. In the speech recognition example, what is the problem with some labellers transcribing audio as "Um, today's weather" and others transcribing "Umm..., today's weather"?

- The first is grammatically incorrect and we should use the second transcription.
- Either transcription is okay, but the inconsistency is problematic.
- We should not be transcribing "Umm." The correct transcription, which serves the user's needs better, is just "Today's weather".
- The second is grammatically incorrect and we should use the first transcription.

*The labelling instructions should remove ambiguity such that every example is labelled consistently.*

4. After a system is deployed, monitoring and maintaining the system will help us handle any cases of concept drift or data drift.

- True
- False

*The last step of the machine learning project lifecycle is monitoring and maintenance, which is necessary because your project's use cases and data may change over time!*

5. Which statement is a more accurate description of the full cycle of a machine learning project?

- It is a linear process, in which we move step-by-step from scoping to deployment. (That's why we call it a cycle. Bicycles are only good at going forward, not backward.)
- It is an iterative process, where during a later stage we might go back to an earlier stage. (That's why we call it a cycle--it's a circular process.)