

# Questions to Evaluate a Machine Learning Project

This set of questions can be used during a machine learning course that introduces technical people who did not previously have a background in ML, and helps them understand if their project is well designed according to machine learning standards.

## Infrastructure

- What is the time to train your model? Can you use streaming data to reduce the amount of **time** to train? Can you split over multiple instances to reduce the time to train?
- What infrastructure are you using to train your models? Is it the lowest possible **cost**?
- Where are you storing your data; is that the best solution?
- What devops framework do you have to continuously integrate changes as you make them?
- Where are you developing your model, and is it the best choice for your scenario?

## Conceptual

- Does the data that you're using reflect the real world?
- What actually impacts the real world prediction problem, and is that in your data set?

## Data transformation

- Did you **normalize** your **data**?
- Did you randomly shuffle your data?
- Did you remove any outliers for your data?
- How did you handle missing or nonsensical values in your data?
- How are you handling any sequential elements of your data set?

## Method

- Which model did you select, and why?
- How are you evaluating your model?
- Is your model overfitting, and what are you doing to counteract that?
- What are the limitations of your model, and what are its strong points?