Interpretation

1 - In Figure 1 we have a data distribution, the dots represent the sparse data for the axis X and Y, and the lines represent the fit of a hypothetical classification model. Based on the distributions of Figure 1:

- Which distribution has the best balance between bias and variance?
- Describe your thoughts about your selection.

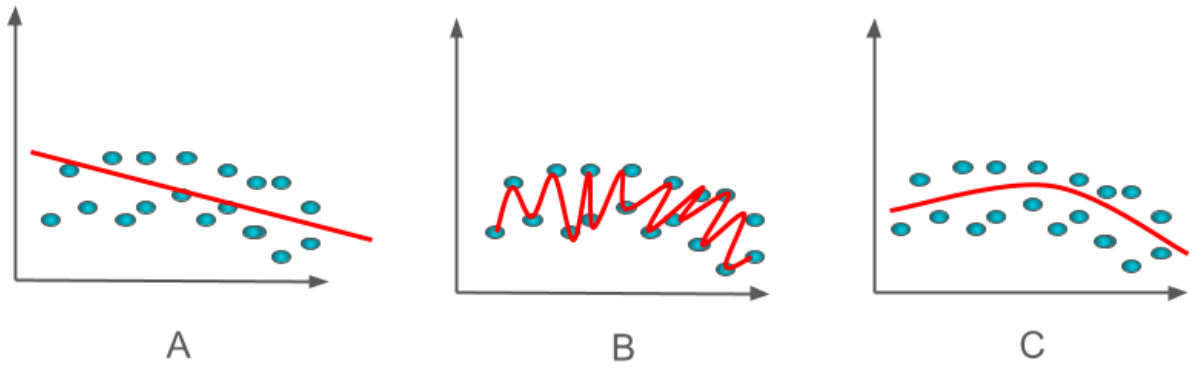


Figure 1 - Data distribution samples

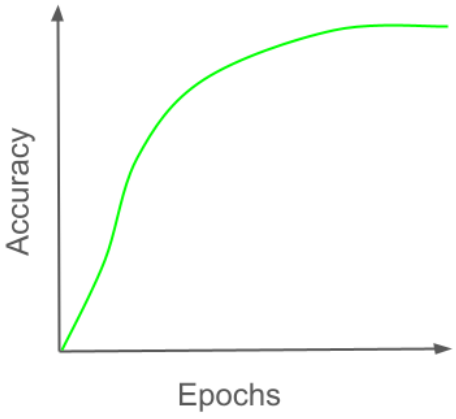
2 - Figure 2 presents a simple graph with 2 curves and 1 line. In model selection and evaluation:

- What is the purpose of this graph and its name?
- What kind of model result does the dashed line represent?
- Which curve represents a better fit, the red or the green? Why?
- Describe your thoughts about your selection.

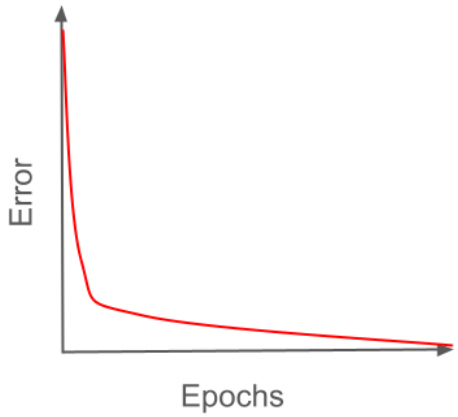
Figure 2 - Simple graph

3 - Figure 3 presents a classification model training and the evaluation. This model classifies 3 classes (A, B, C). Graph A represents the training accuracy over the epochs, Graph B represents the training loss over the epochs, and the table represents the evaluation of the model using some test samples, we used a confusion matrix to evaluate the classes trained.

- Can we say that the model has a good performance in the test evaluation?
- What phenomenon happened during the test evaluation?
- Describe your thoughts about your selection.



A



B

	A	B	C
A	0.5	0.25	0.25
B	0.15	0.45	0.35
C	0.1	0.4	0.5

Figure 3 - Model train and evaluation pipeline