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KNN implementation: classification with Scikit-Learn Python

Module 3

17 September 2023

TECHAD BOOTCAMP **BATCH 8**

TOPIC:

**Machine Learning:
An Introduction to KNN
and Its Implementation**

Confusion Matrix

		Kucing	Anjing
Kucing	Confusion Matrix	Actually Positive	Actually Negative
	Predicted Positive	True Positive (TP)	False Positive (FP)
	Predicted Negative	False Negative (FN)	True Negative (TN)

A **good model** has high TP and TN and low FP and FN.

Kasus Kanker	Kanker Ganas	Kanker Jinak
Kanker Ganas	True Positive (TP)	False Positive (FP)
Kanker Jinak	False Negative (FN)	True Negative (TN)

Mahasiswa DO	Layak DO	Tidak Layak DO
Layak DO	True Positive (TP)	False Positive (FP)
Tidak Layak DO	False Negative (FN)	True Negative (TN)

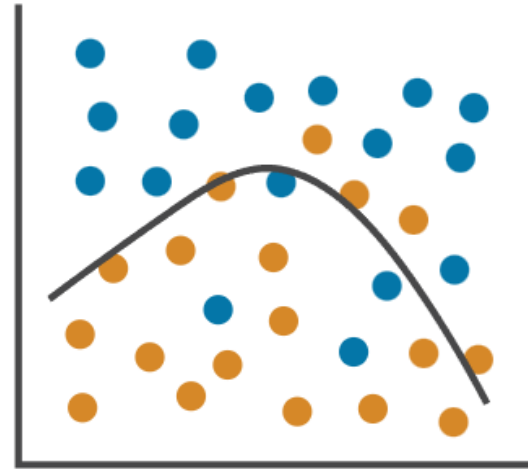
Overfitting and Underfitting

Classification

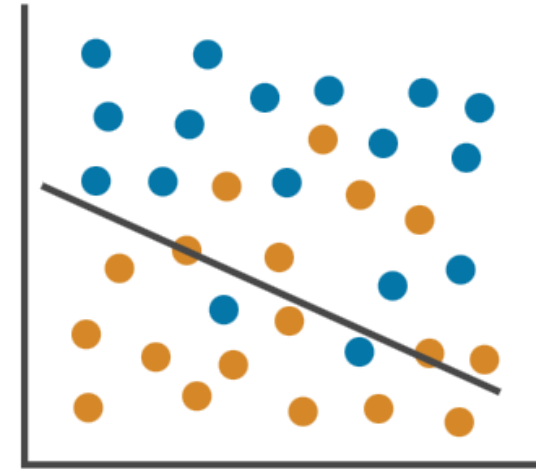
Overfitting



Right Fit

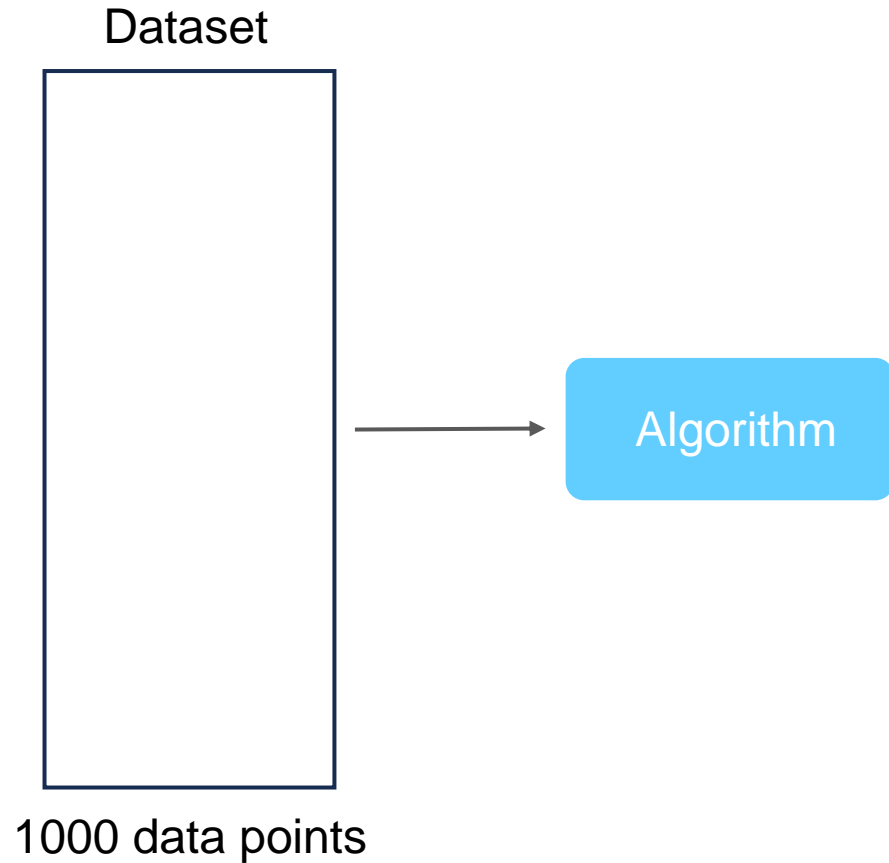


Underfitting



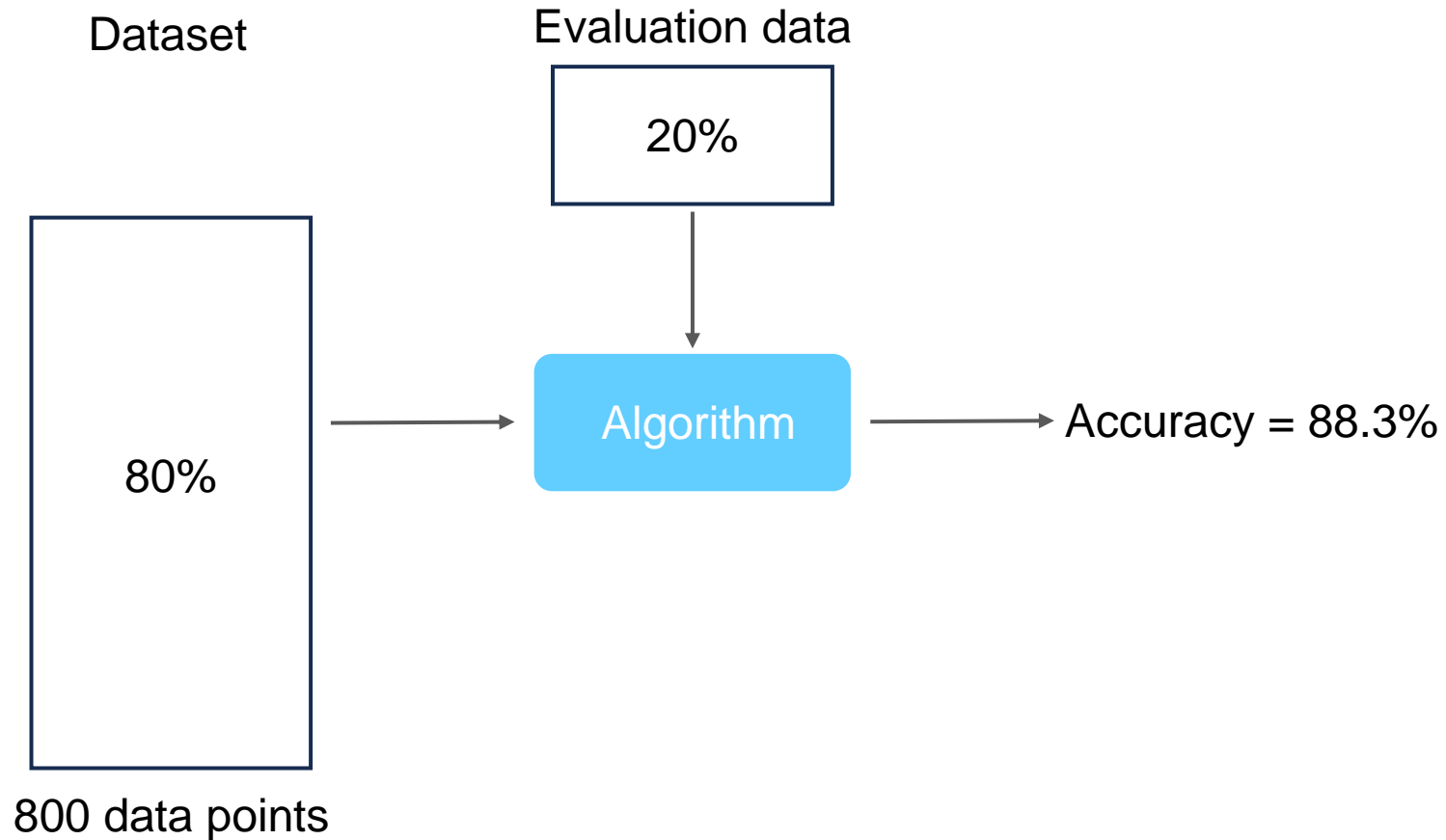
Source:
<https://www.mathworks.com/discovery/overfitting.html>

Overfitting and Underfitting

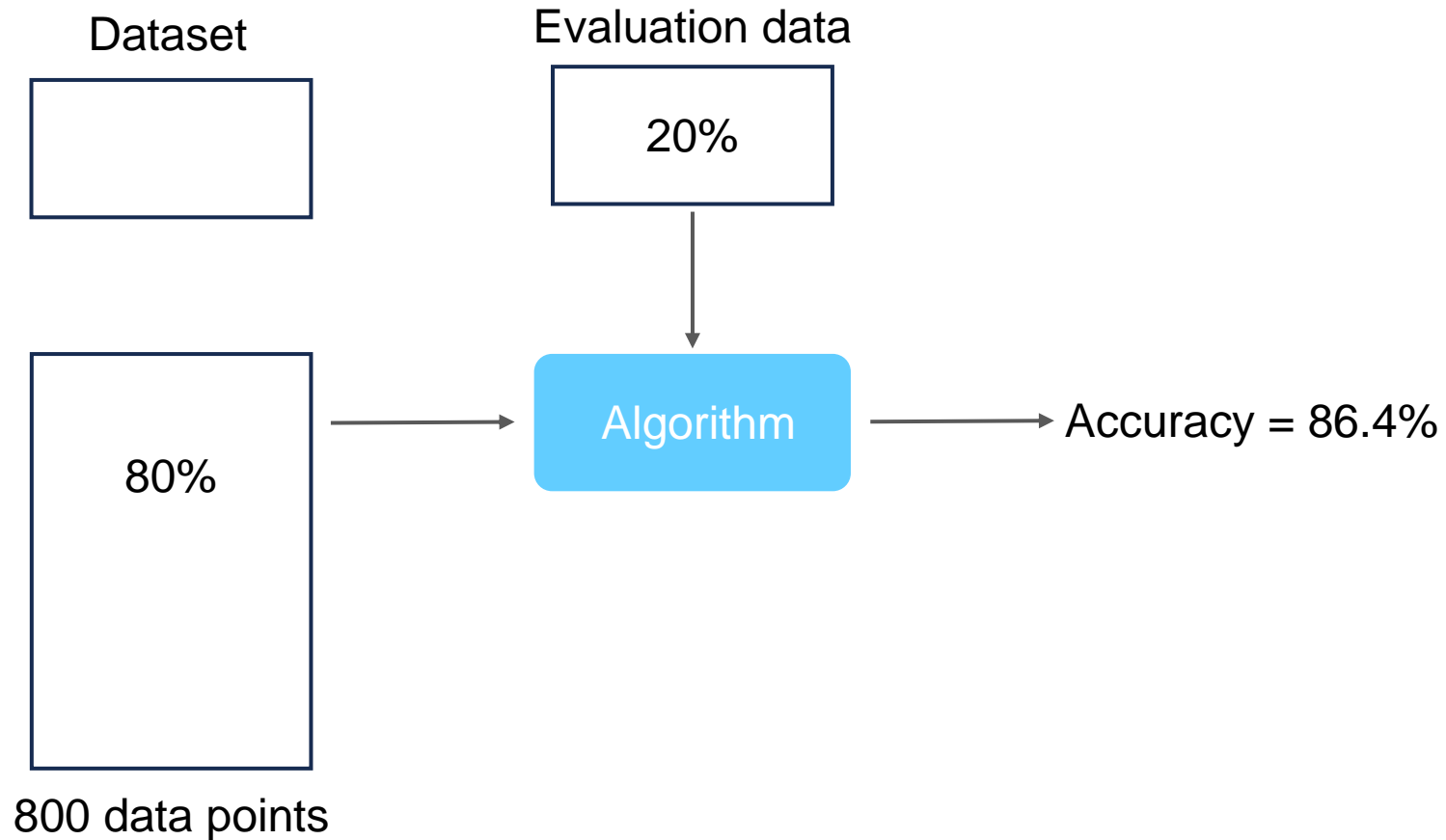


Source:
<https://www.mathworks.com/discovery/overfitting.html>

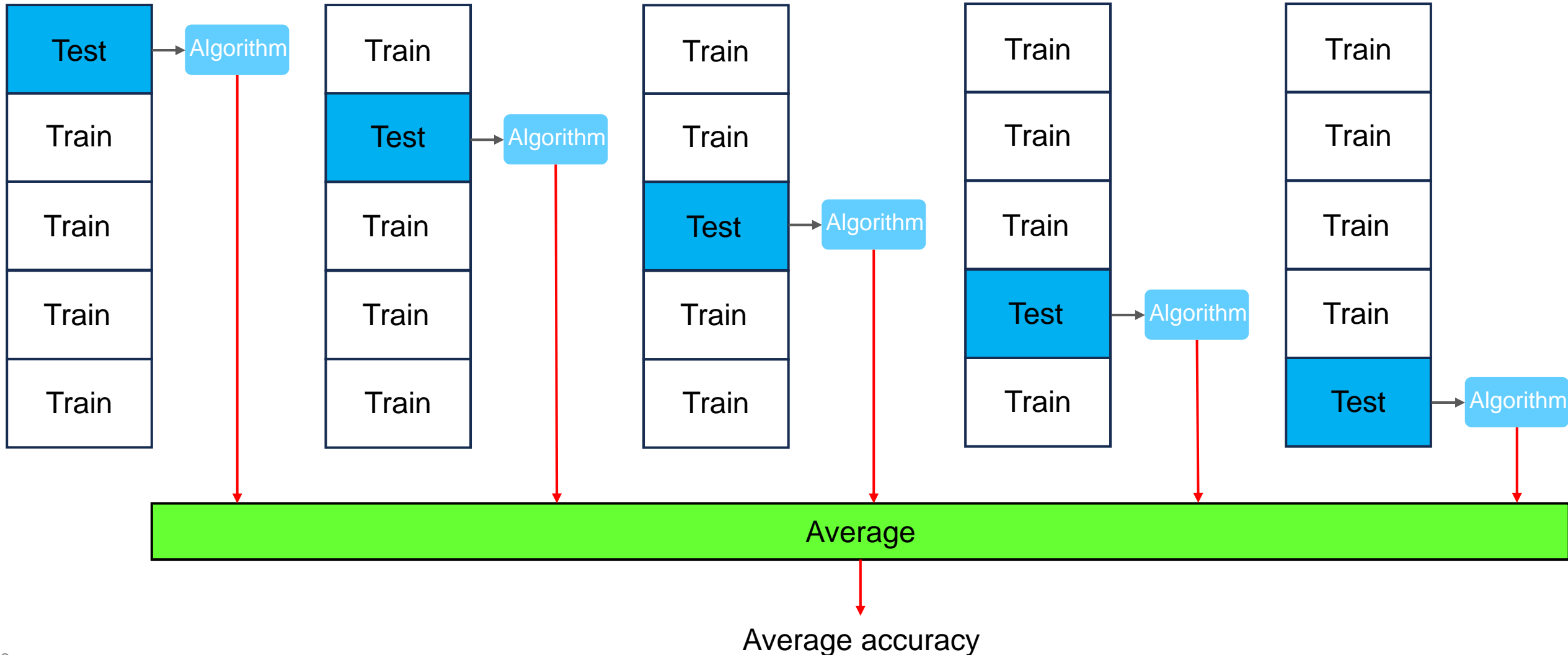
Overfitting and Underfitting



Overfitting and Underfitting



K-Fold Cross Validation



Source:
<https://www.mathworks.com/discovery/overfitting.html>

KNN classification using SKLearn



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Showcase project

Module 4

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