

Explaining Test Options in Weka

Test options

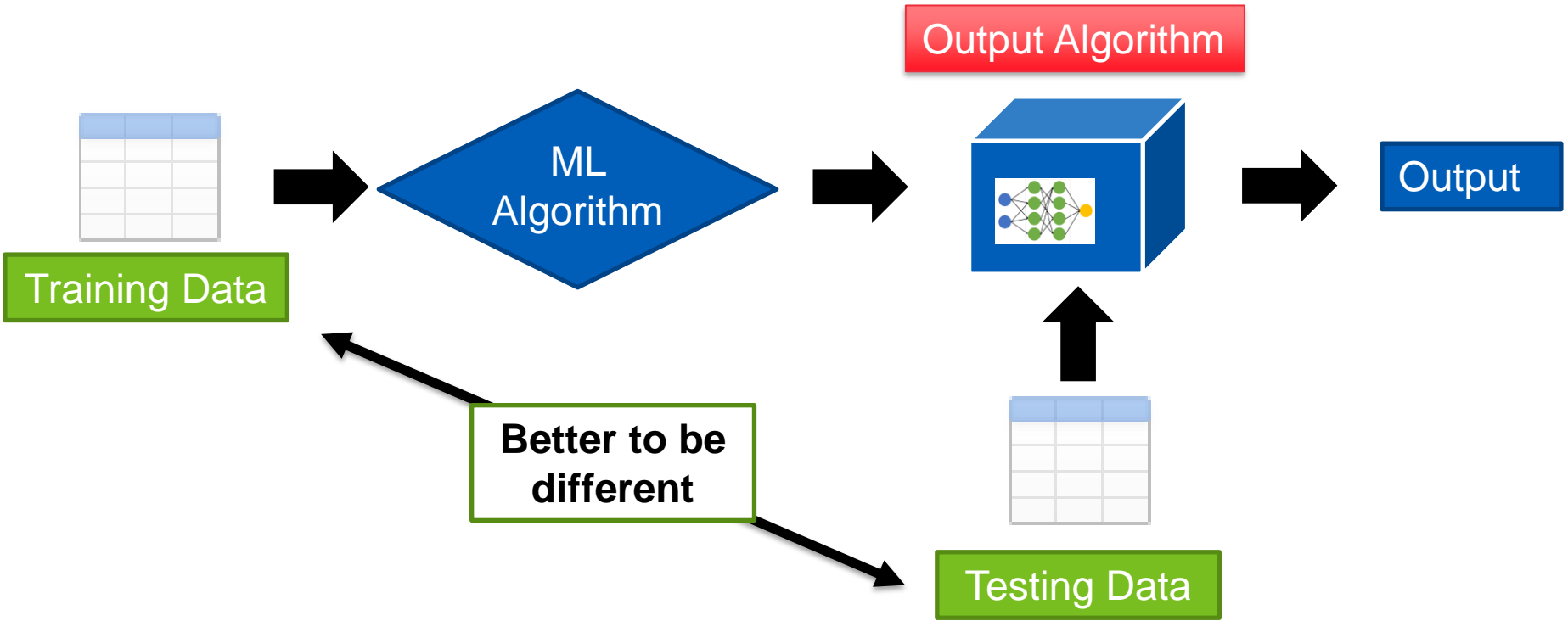
☐ Use training set

☐ Supplied test set Set...

☒ Cross-validation Folds 10

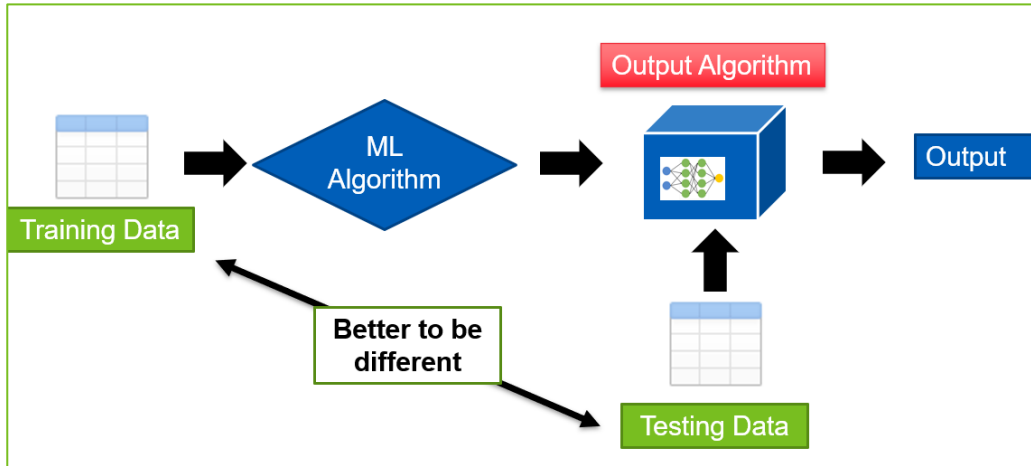
☐ Percentage split % 66

Basics of machine learning



Use training set: Classifies your model based on the dataset which you originally trained your model with.

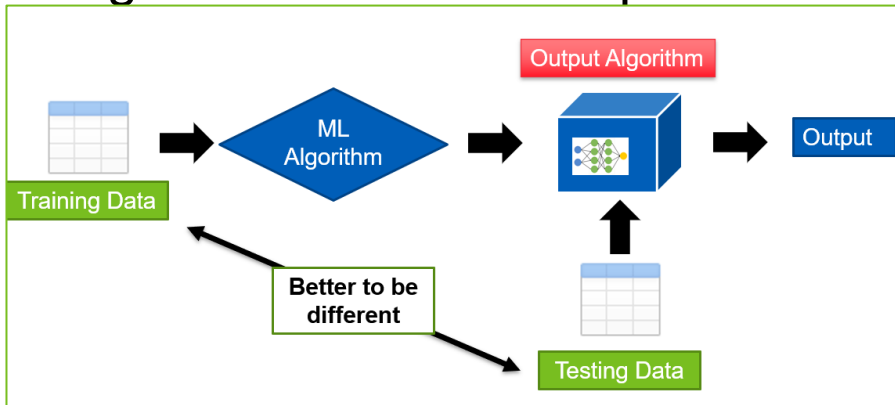
Percentage split: Divide your dataset into train and test according to the number you enter. By default, the percentage value is 66%, it means 66% of your dataset will be used as training set and the other 34% will be your test set.



Test options

- ☐ Use training set
- ☐ Supplied test set
- ☒ Cross-validation Folds
- ☐ Percentage split %

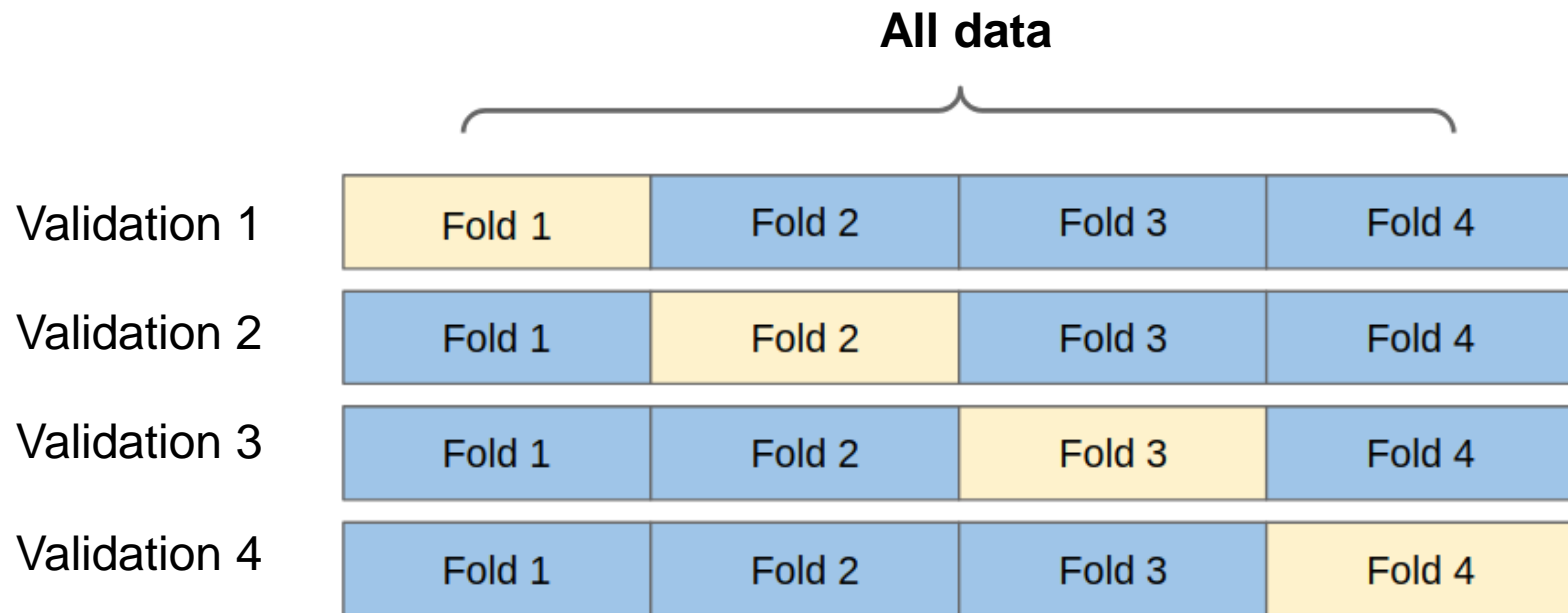
Cross-validation: The cross-validation option is a widely used one, especially if you have a limited amount of datasets. The number you enter in the *Fold* section are used to divide your dataset into Fold numbers (let's say it is **ten**). The original dataset is randomly partitioned into ten subsets. After that, Weka uses set **one** for testing and **nine** sets for training for the first training, then uses set **two** for testing and the other **nine** sets for training, and repeats that **ten** times in total by incrementing the set number each time. In the end, the average success rate is reported to the user.



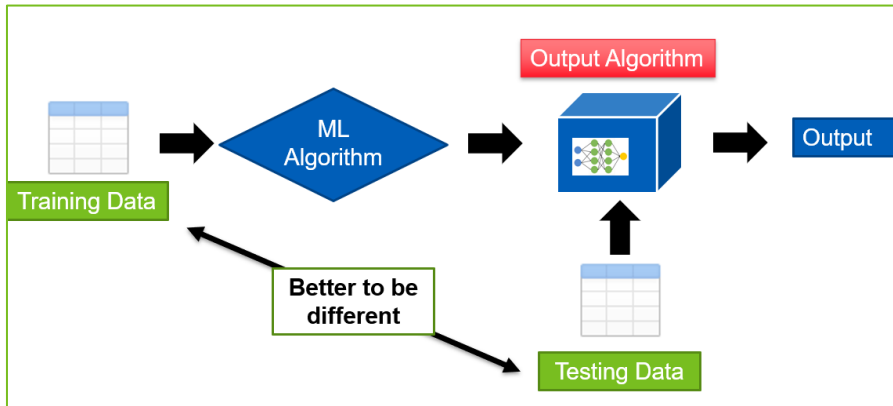
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An example 4-Fold cross validation



Supplied test set: Controls how your model is classified based on the dataset you supply from externally. Select a dataset file by clicking the Set button.



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- ☒ Cross-validation Folds
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