

# Classification Metrics

		Predicted	
		Positive	Negative
Actual	Positive	True Positive (TP)	False Negative (TN)
	Negative	False Positive (FP)	True Negative (TN)

# Hyperparameter Tuning

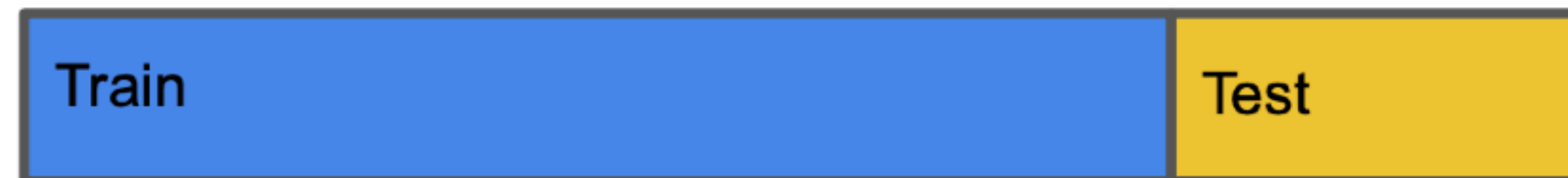
- **Parameters:** values in your model that your model chooses (e.g. coefficients)
- **Hyperparameters:** values in your model that your model does NOT choose (e.g. K in KNN, max\_depth in DTs)

## Two options:

1. Choose the hyperparameter based on domain knowledge
2. Choose the hyperparameter using hyperparameter tuning

Train-Test-Validation: The validation set serves as a pretend-test-set for us to see how well different hyperparameter values do on unseen data without touching our actual test set

No Hyperparameters:



With Hyperparameters:

