

# Data Splitting: Train / Validation / Test

## Full Dataset



## Typical Workflow

1. Split data BEFORE any preprocessing (prevent data leakage)
2. Train on training set, evaluate on validation set
3. Iterate: adjust hyperparameters based on validation performance
4. Final model: evaluate ONCE on test set (report this!)

**WARNING: Never optimize based on test set performance (data leakage)!**