# Machine Learning

① Model Performance  — Accuracy ↑↑ → High

② Overfitting, Underfitting

③ Bias Vs Variance

① Overfitting And Underfitting

### DATASET

**①**

Books → TRAIN ⟶ Model is Trained ⟶ Accuracy ↑↑ → 95%  ⎱ Overfitting
Exam → TEST ⟶ Model is Tested ⟶ Accuracy ↓↓ → 65%  ⎰
⇓
{ Low Bias
High Variance }

**②**

Train ⟶ Accuracy ↓↓ → 55%  ⎱ Underfitting
Test ⟶ Accuracy ↓↓ → 50%  ⎰
⇓
{ High Bias
High Variance }

**③**

Generalized Model

TRAIN → Acc ↑↑ → 85%

Test → Acc ↑↑ → 86%.

⇓

{ Low Bias
Low Variance }