

Ensemble Methods



Averaging



Mean Prediction

Averages predictions from multiple models



Voting



Majority Vote

Takes majority vote for classification



Stacking



Meta-Model

Trains meta-model on base predictions



Typical Size



3-10 models in ensemble

✓ Key Benefits



Reduces **variance** across predictions



Improves **robustness** of the model



Trades **computational cost** for **higher accuracy**