

Bagging vs Boosting vs Stacking

(Ensemble Techniques)

↳ Interview

	✓ Bagging	✓ Boosting	✓ Stacking
→ Purpose	<u>Reduce Variance</u>	<u>Reduce Bias</u>	<u>Improve Accuracy</u>
→ Base Learner Types	<u>Homogeneous</u>	<u>Homogeneous</u>	<u>Heterogeneous</u>
→ Base Learner Training	<u>Parallel</u>	<u>Sequential</u>	<u>Meta Model</u>
→ Aggregation	<u>Max Voting, Averaging</u>	<u>Weighted Averaging</u>	<u>Weighted Averaging</u>

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Core idea

↓ Reduce the overfitting (reduce the variance) → Reduce the underfitting (Reduce the bias)

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Random forest