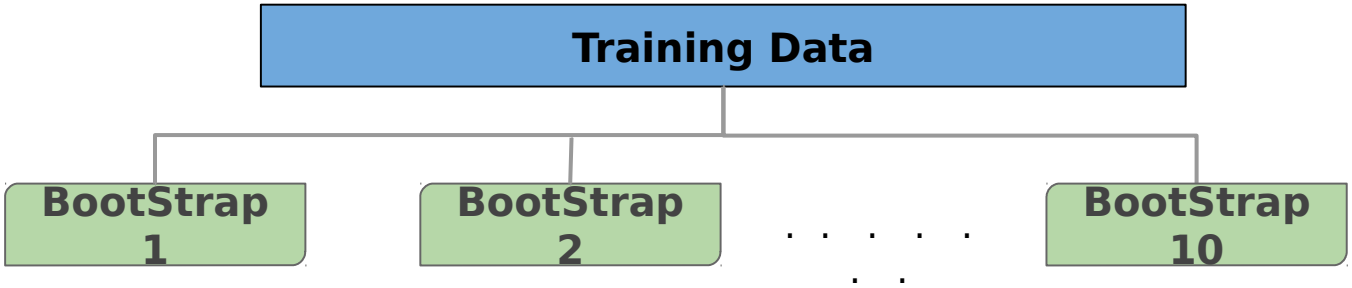
Random Forest

Random Forest

Random Forest



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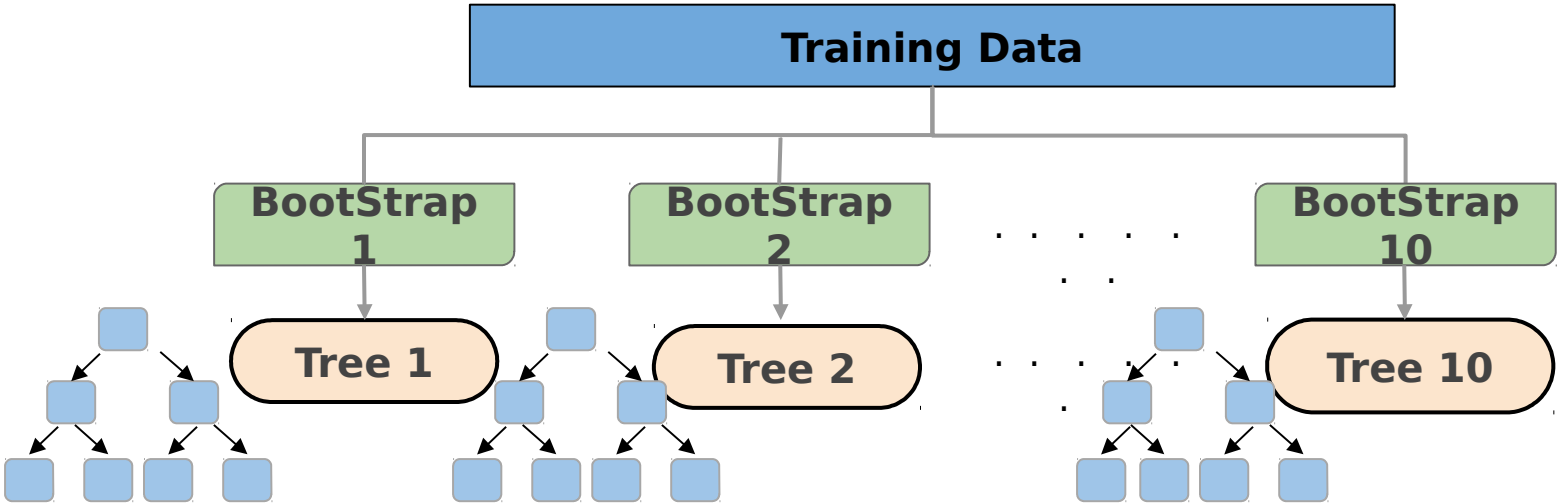

Analytics Vidhya
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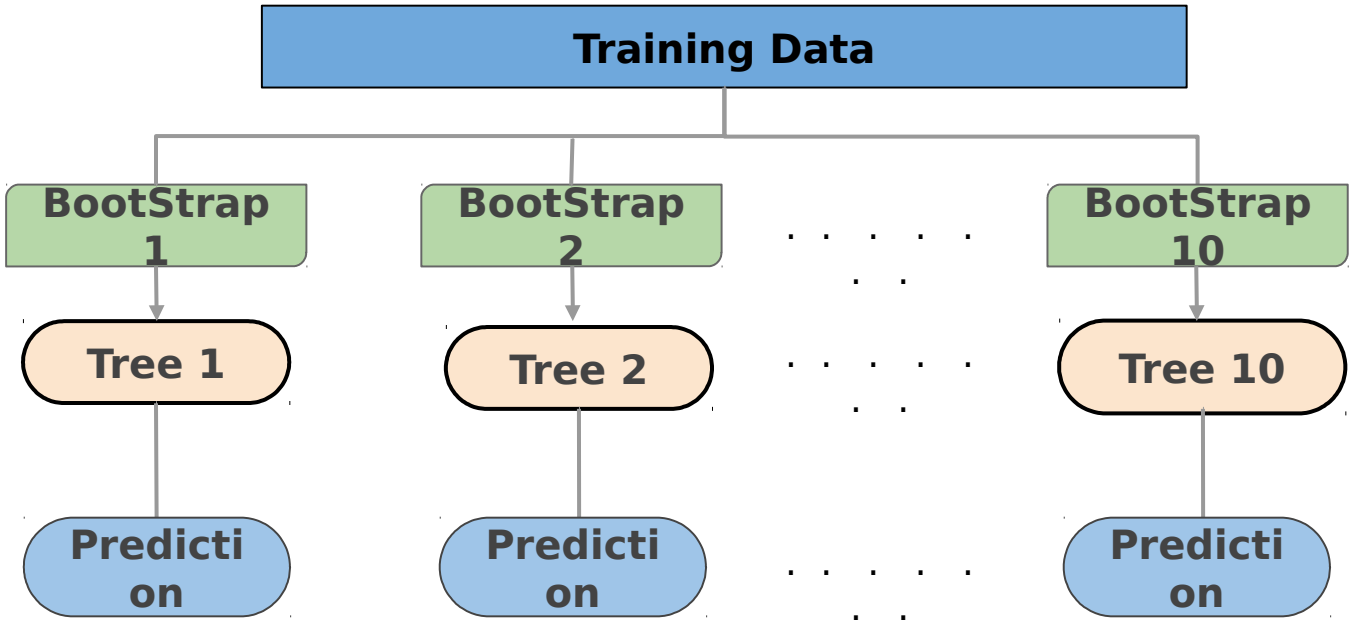
Random Forest



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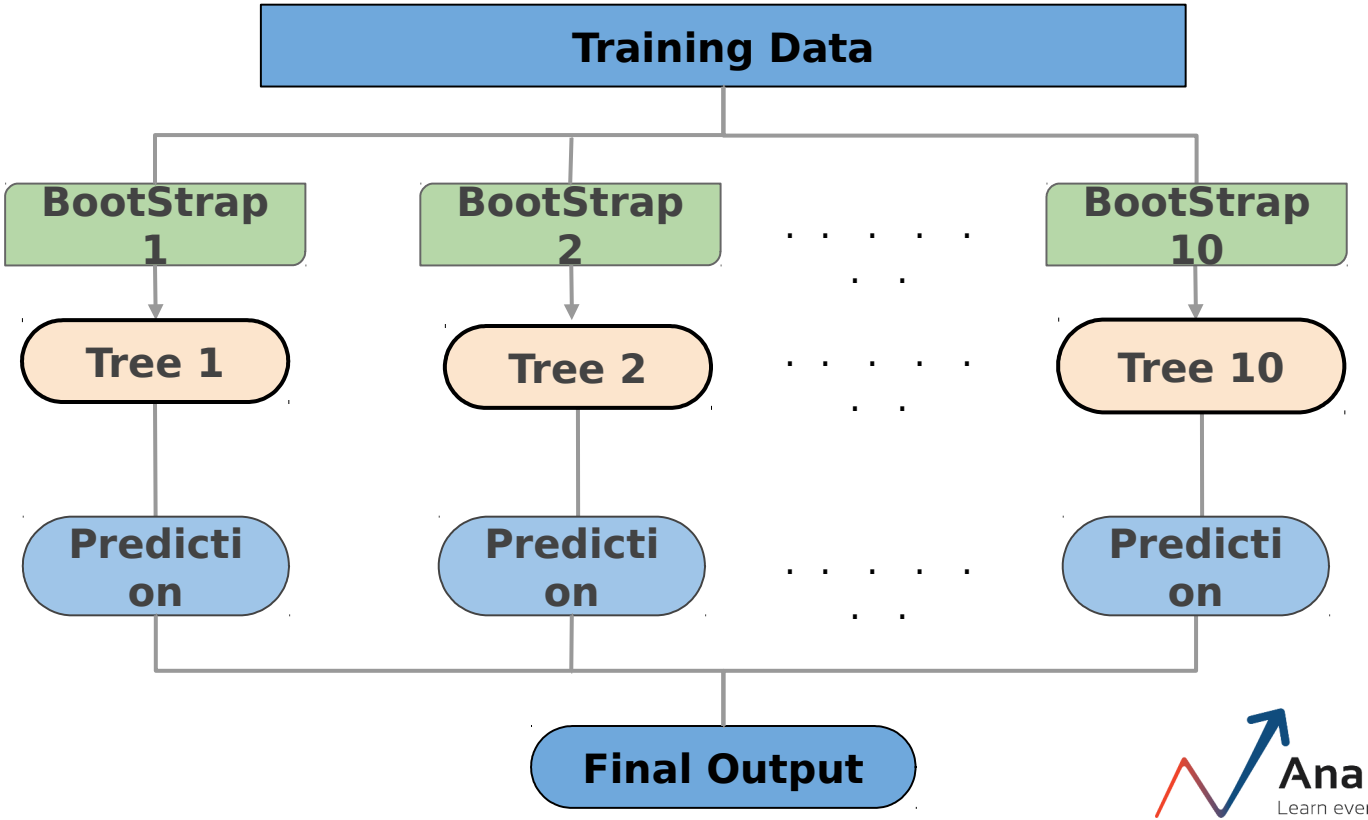
Random Forest



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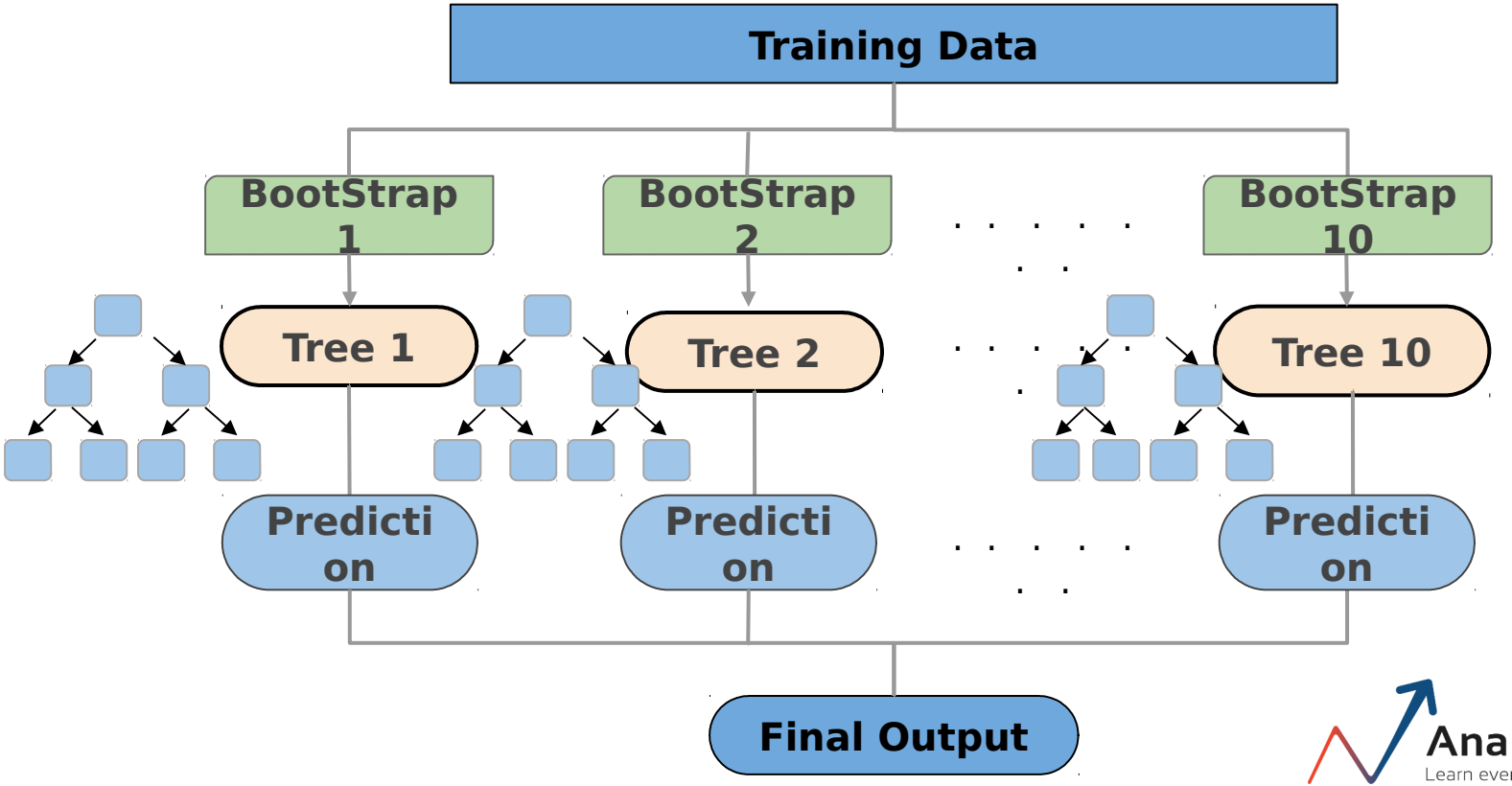
Random Forest



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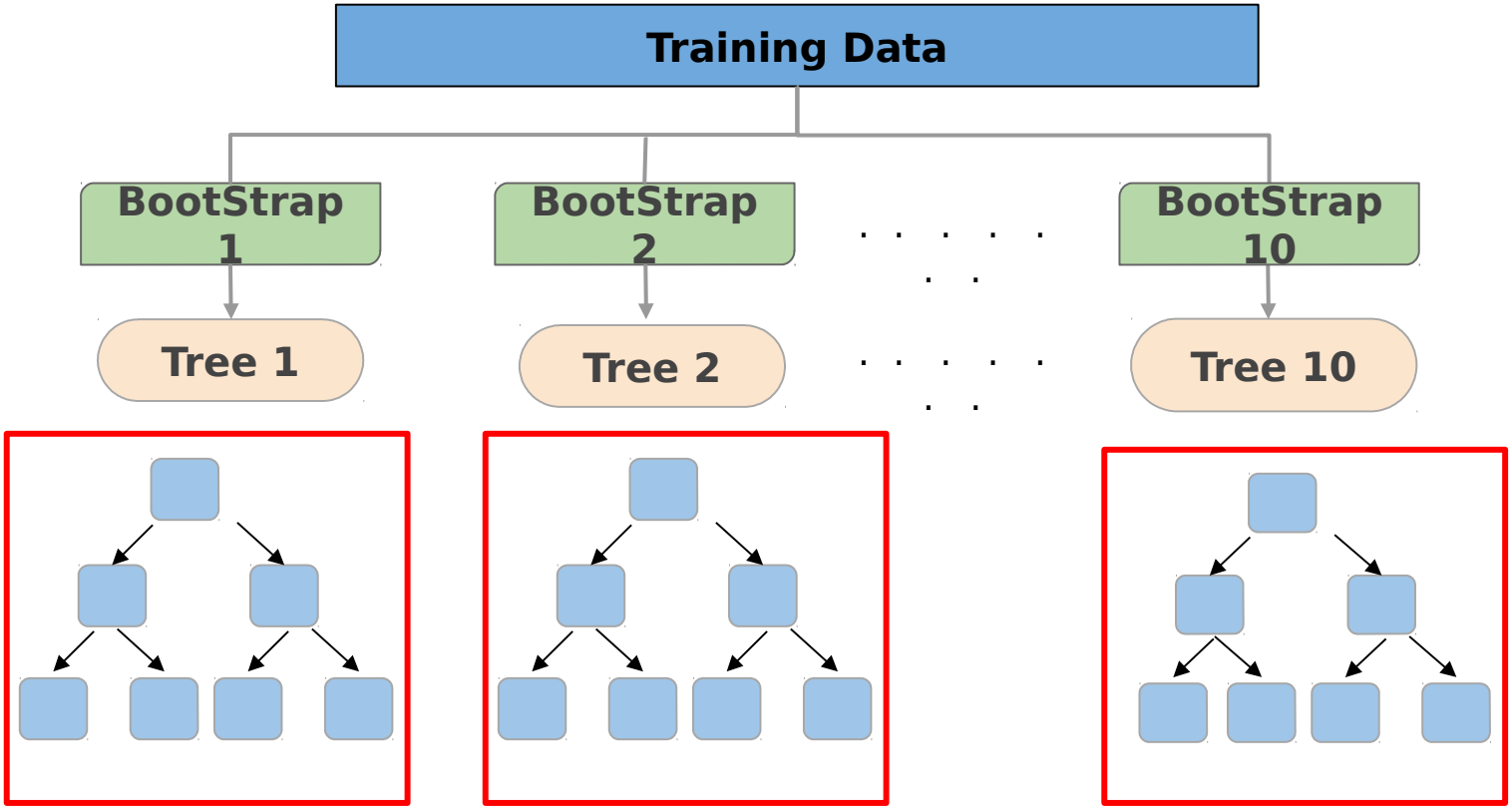
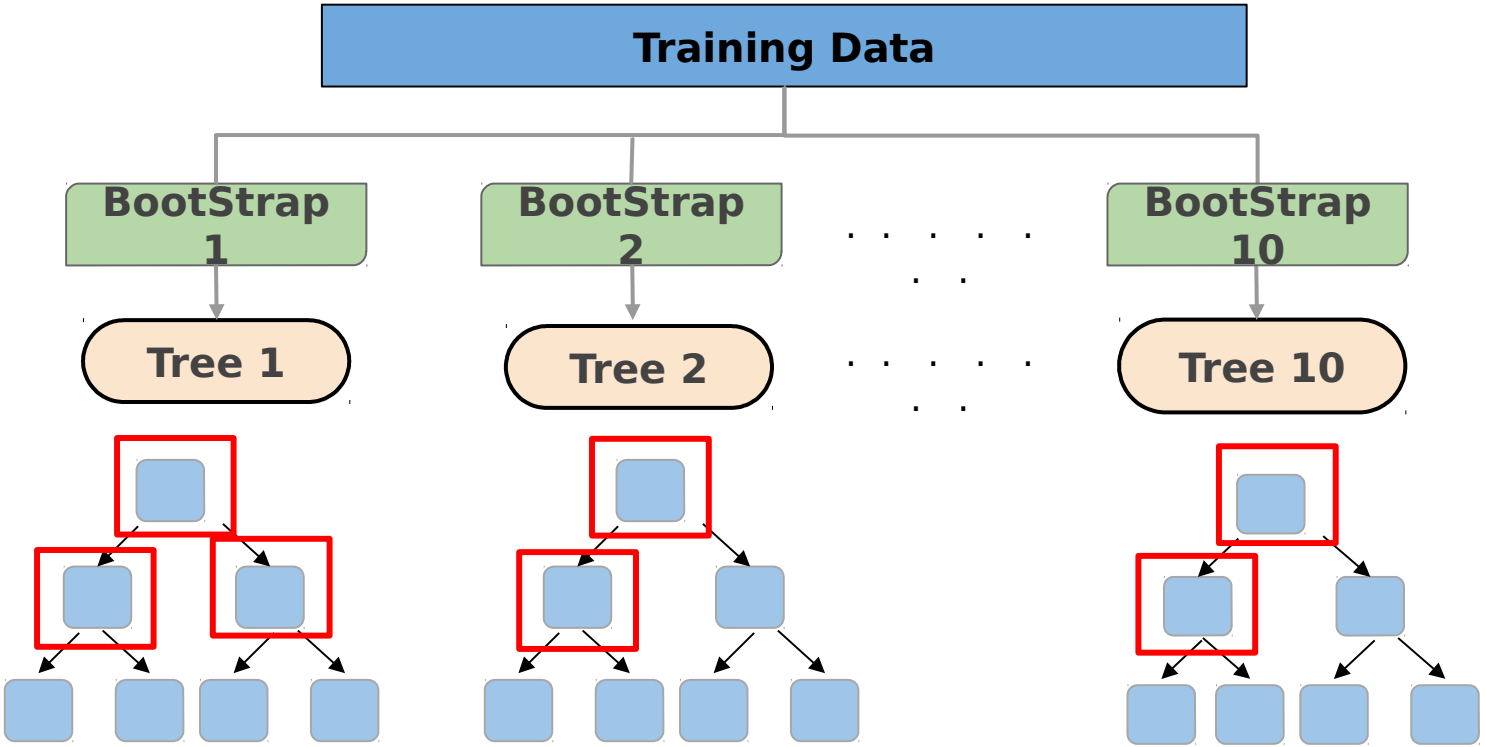
Random Forest



Random Forest

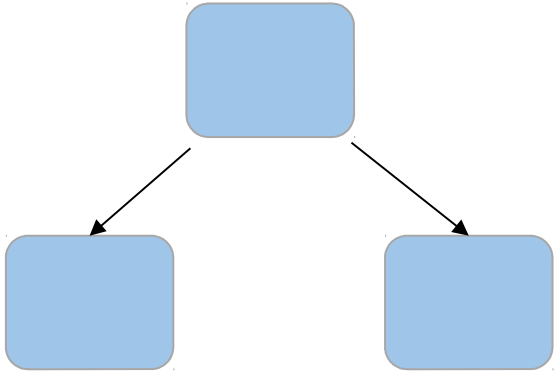


Feature Sampling

V1 V2 V3 V4 V5 V6 V7 V8
V9

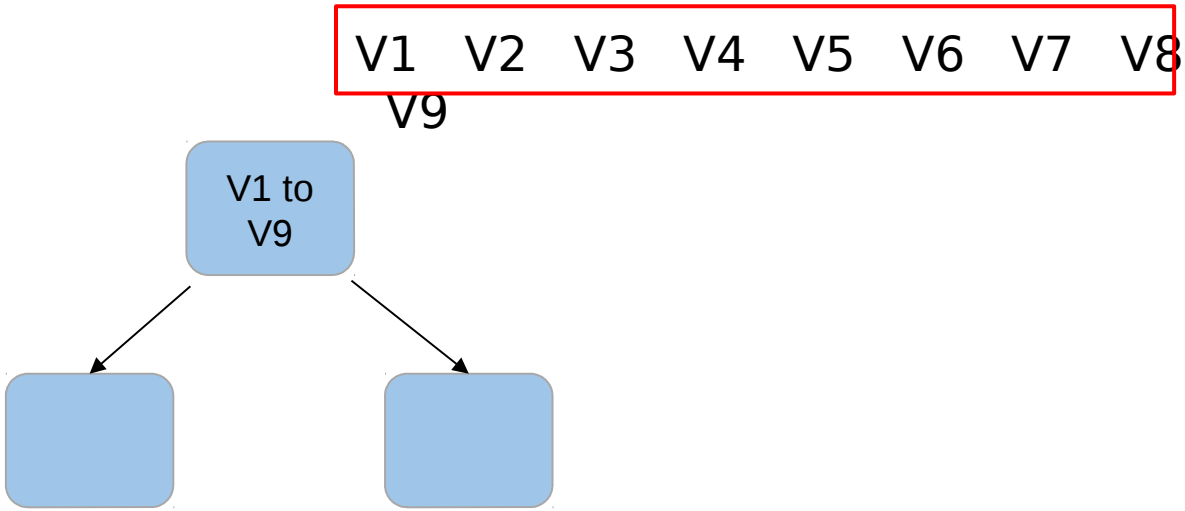
Feature Sampling

V1 V2 V3 V4 V5 V6 V7 V8
V9



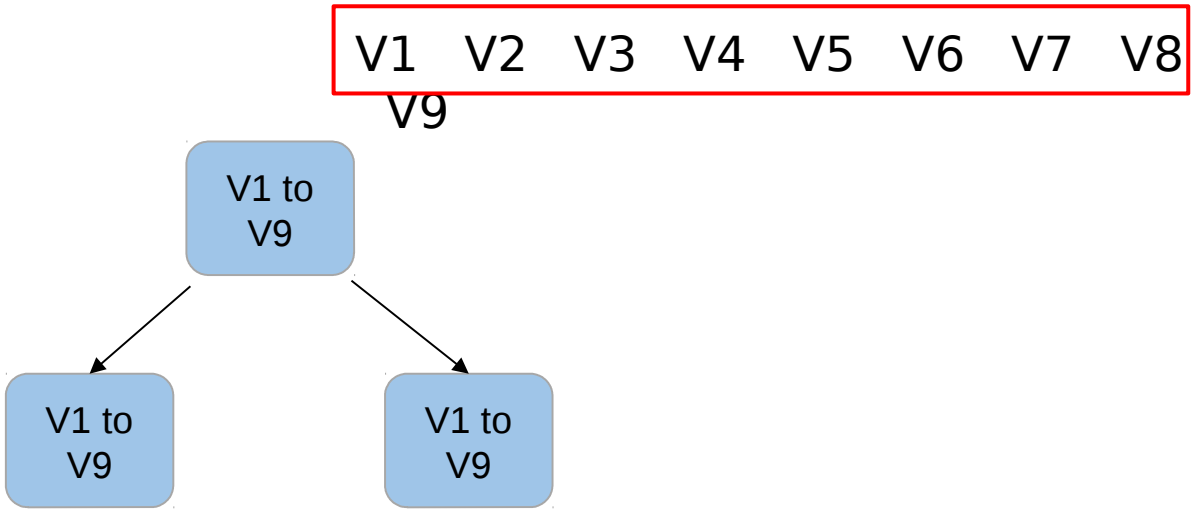
Decision tree

Feature Sampling



Decision tree

Feature Sampling



Decision tree

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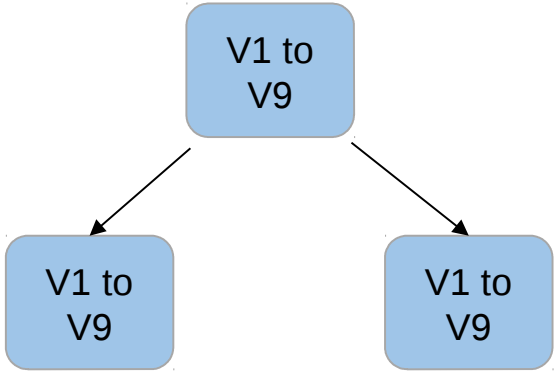
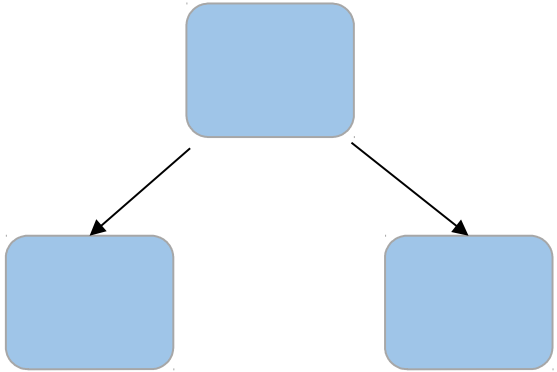
Feature Sampling

V1 V2 V3 V4 V5 V6 V7 V8 V9



Decision tree



Single tree in Random Forest

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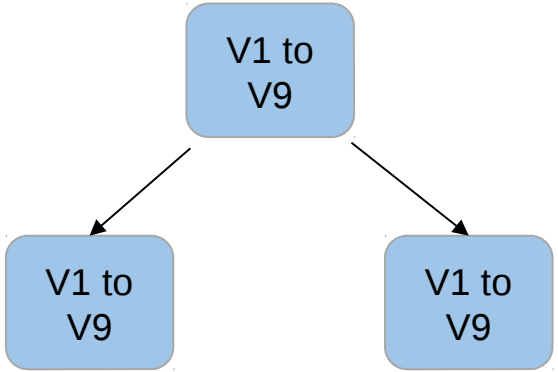
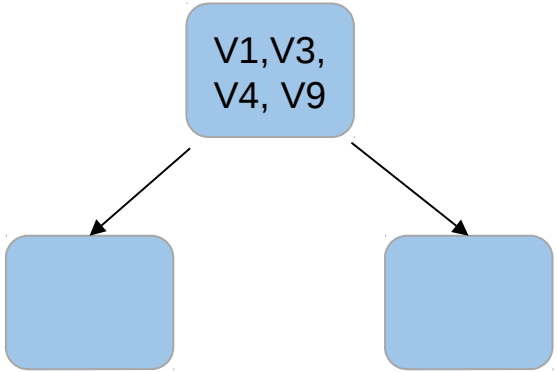
Feature Sampling

V1 V2 V3 V4 V5 V6 V7 V8 V9



Decision tree



Single tree in Random Forest

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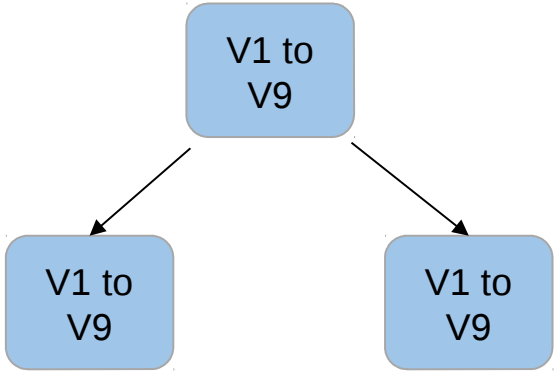
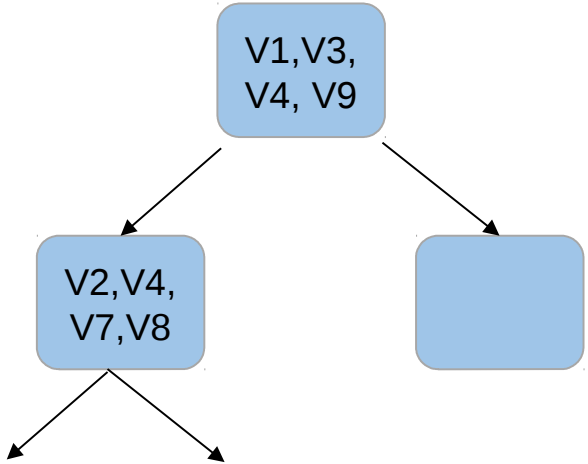
Feature Sampling

V1 V2 V3 V4 V5 V6 V7 V8 V9



Decision tree



Single tree in Random Forest

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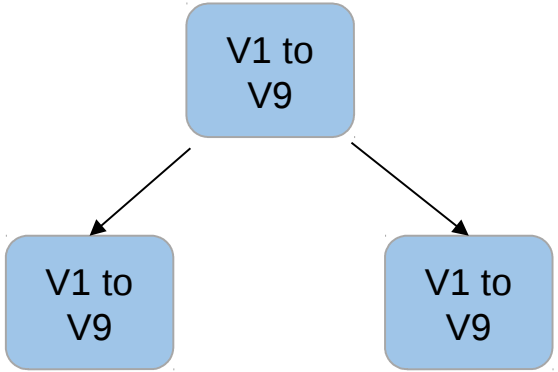
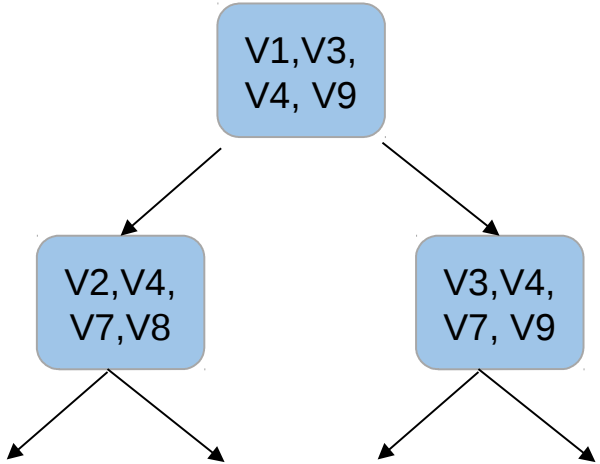
Feature Sampling

V1 V2 V3 V4 V5 V6 V7 V8 V9

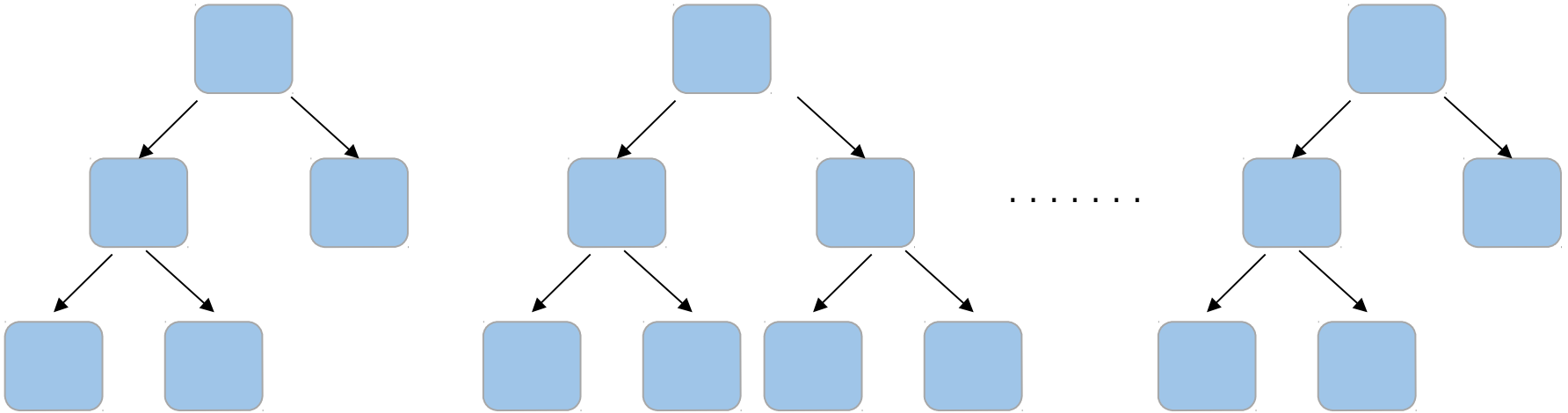


Decision tree



Single tree in Random Forest

Random Forest



Tree 1 Tree 2 Tree n

Random Forest

- Create multiple BootStrap samples

Random Forest

- Create multiple BootStrap samples
- Build a decision tree on every sample

Random Forest

- Create multiple BootStrap samples
- Build a decision tree on every sample
- Use feature sampling for each split in decision tree

Random Forest

- Create multiple BootStrap samples
- Build a decision tree on every sample
- Use feature sampling for each split in decision tree
- Aggregate all decision trees