



H2O.oidi











RF Tree Variance: splits

2) Do not consider all of the features for each split

- default is often
- also speeds up computational time



Example:

features = {age, sex, income, education}

Split 1:
best split from {age, income}































Split 2b:
best split from {sex, income}

Split 2a:
best split from {sex, education}











Split 3a:

best split from {sex, education}

Additional methods for variance:

- do not consider all features for each *tree*
- H2O: random histograms



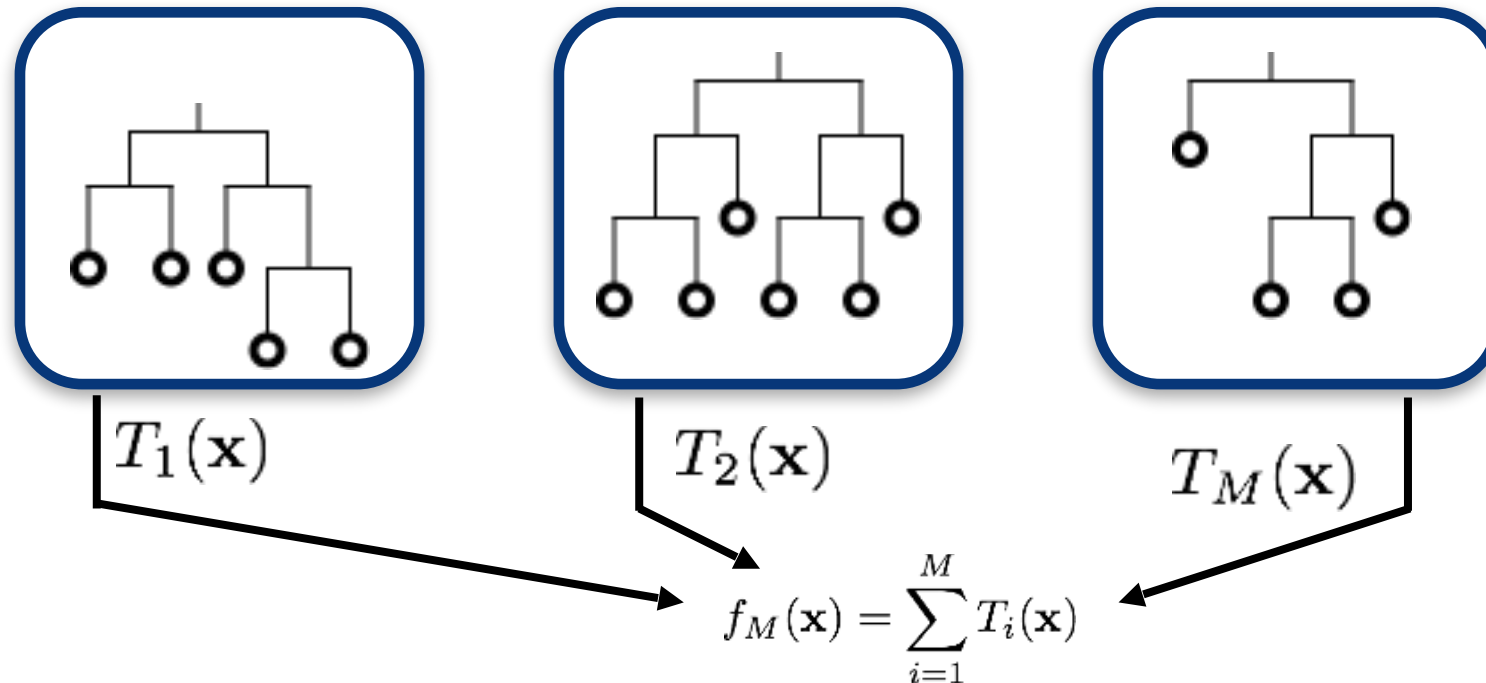
Distributed RFs

Method 1: Parallelize by tree

✓ low communication between nodes (only to reduce as part of map/reduce)

✗ every node must have all data in memory

✗ does not generalize to GBMs



RF Tree Variance: Splits

2) Do not consider all of the features for each split

- default is often \sqrt{n}
- also speeds up computational time

Additional methods for variance:

- do not consider all features for each *tree*
- H2O: random histograms

Example:

features = {age, sex, income, education}

