Decision Trees

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Objective

By the end of this lecture, you'll have bragging rights for:

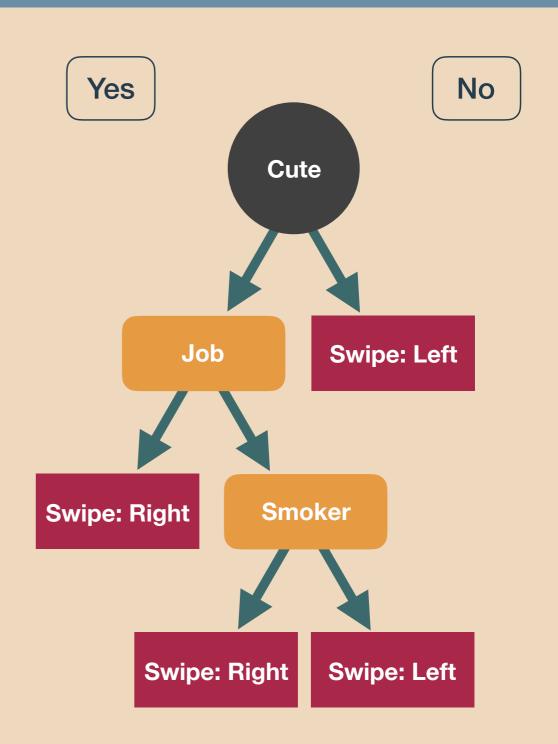
- Describing decision trees
- Explaining how decision trees work
- Building a decision tree

Intro

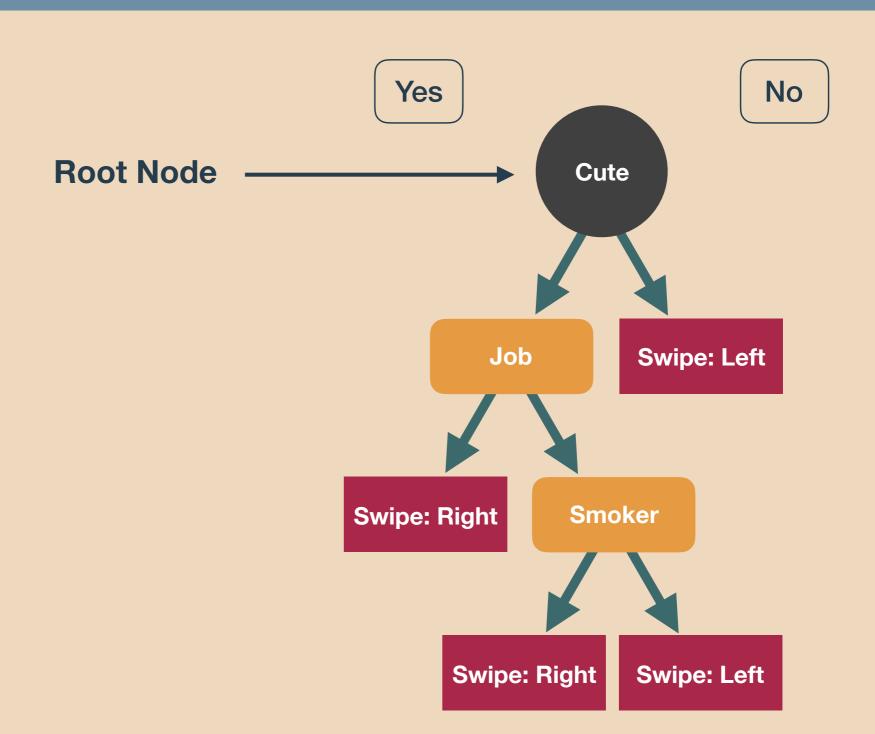
- Tree-like model of decisions
- Non-parametric and hierarchical
- Covers both regression and classification

- Cute
- Job
- Smoker
- Swipe

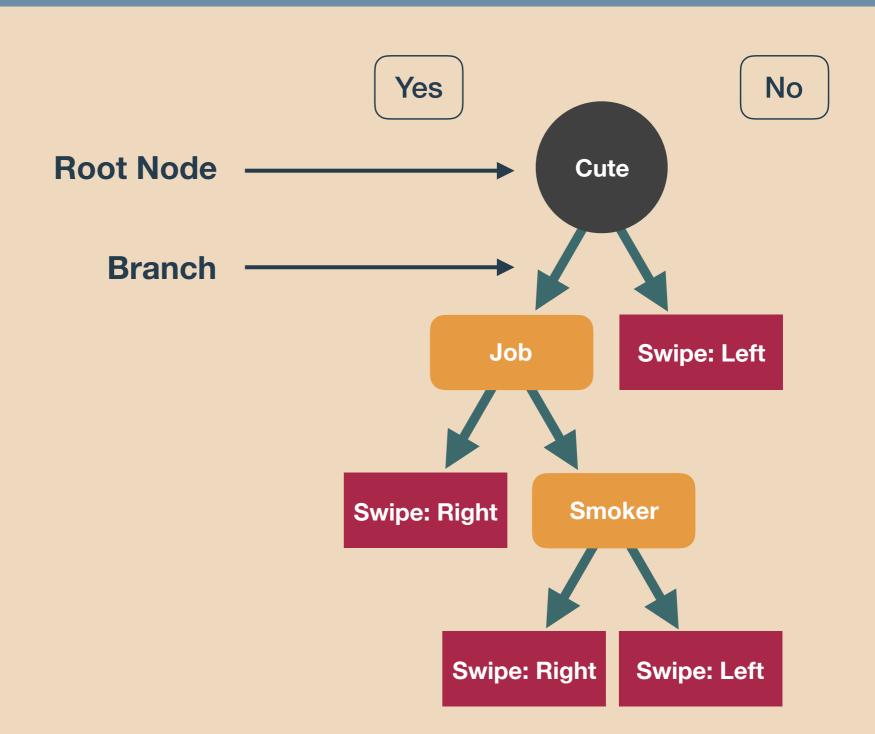
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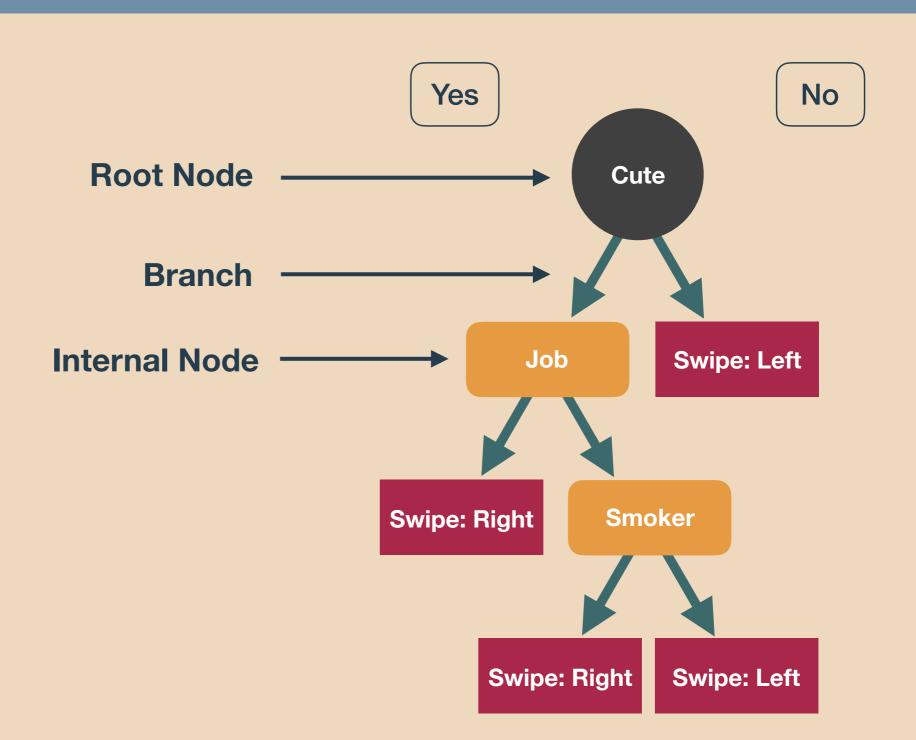
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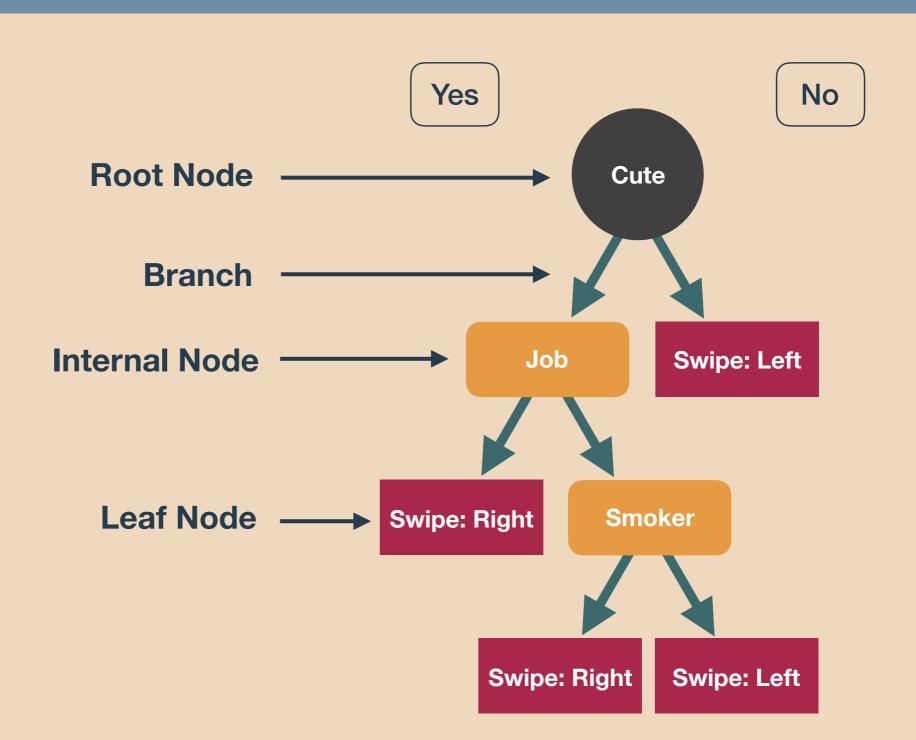
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Decision Tree Constraints

How do you stop growing the tree?

- Set a minimum number of observations a leaf node needs
- Set a maximum depth for the tree (i.e. the longest path from the root node to the leaf node)