Siddhardhan
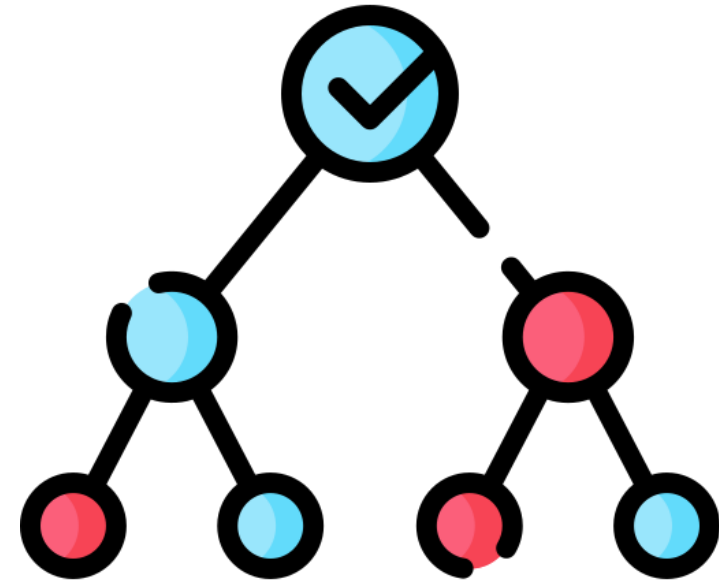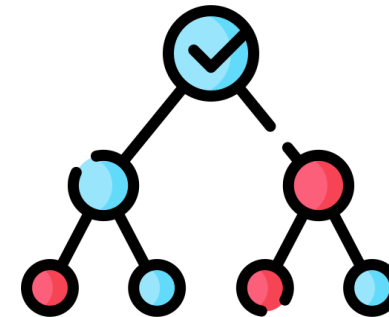
Decision Tree - intuition
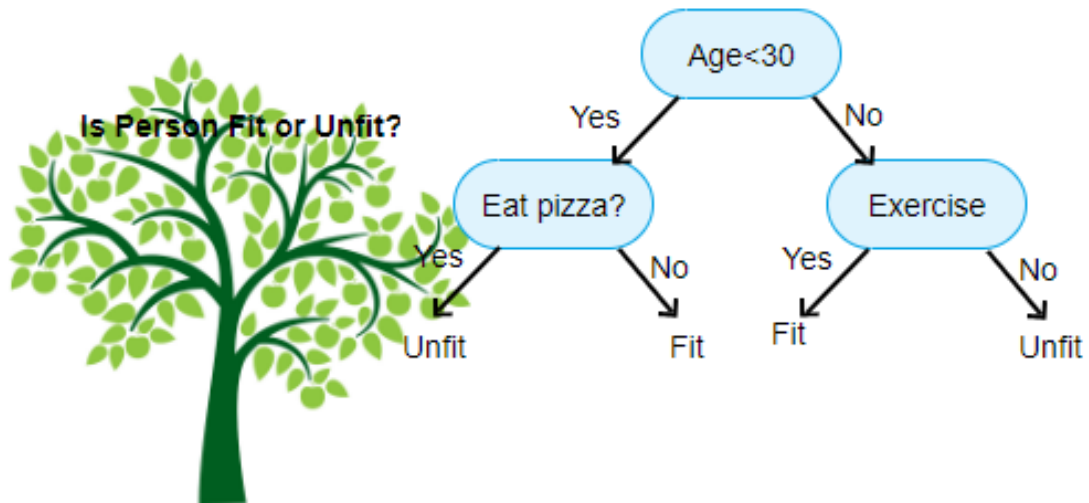
Decision Tree

About Decision Tree model:

1. Supervised Learning Model

2. Used for both Classification & Regression

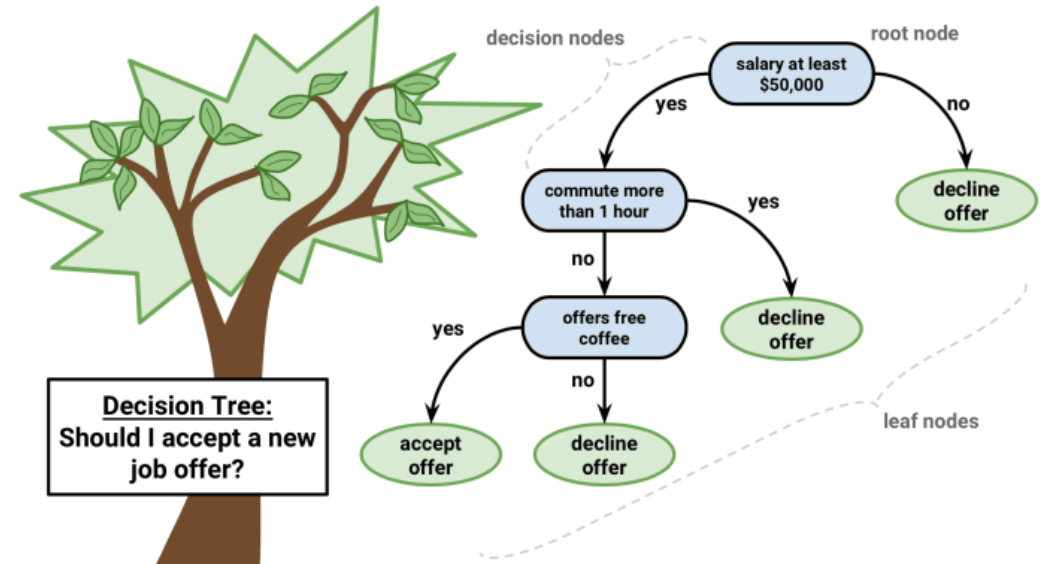3. Builds Decision Nodes at each step

4. Basis of Tree-based models

Decision Tree
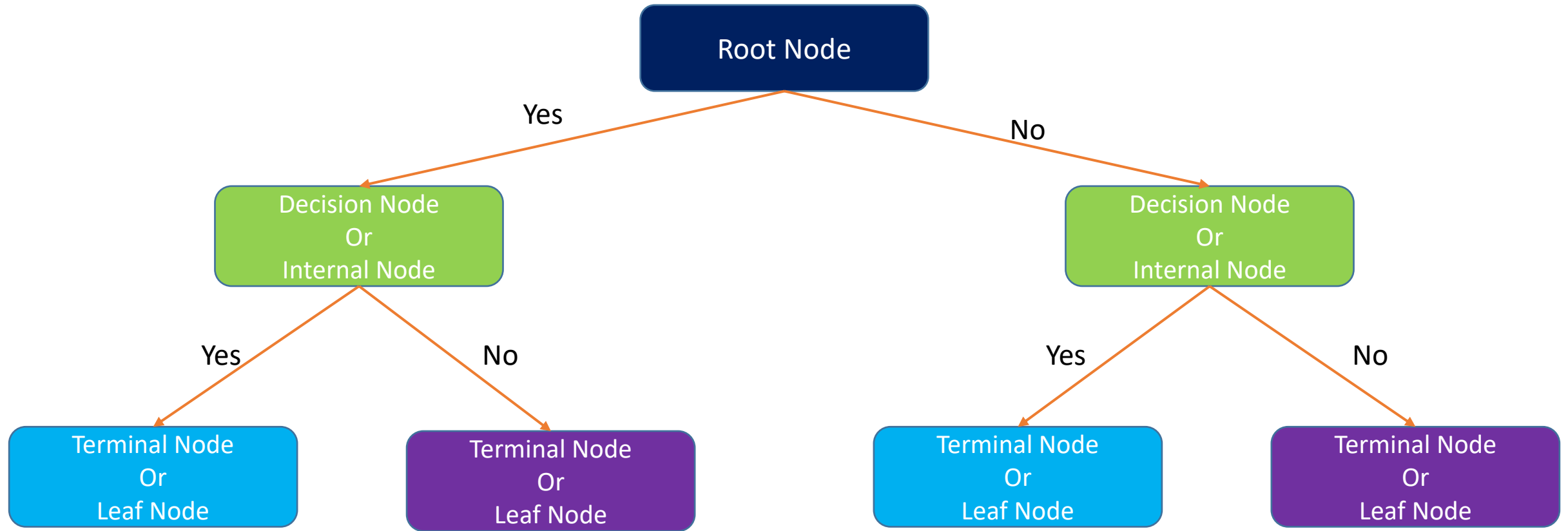
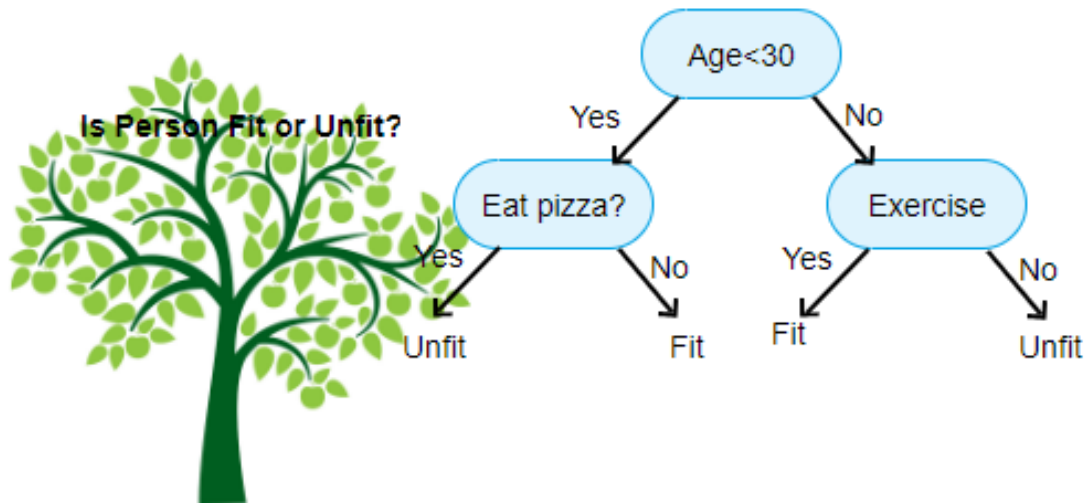## Decision Tree – examples:

Picture credits: AI Time Journal

Picture credits:
https://towardsdatascience.com/decision
-tree-hugging-b8851f853486

Decision Tree - Terminologies

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Decision Tree

Decision Tree – examples:

Picture credits: AI Time Journal

Picture credits:
https://towardsdatascience.com/decision-tree-hugging-b8851f853486

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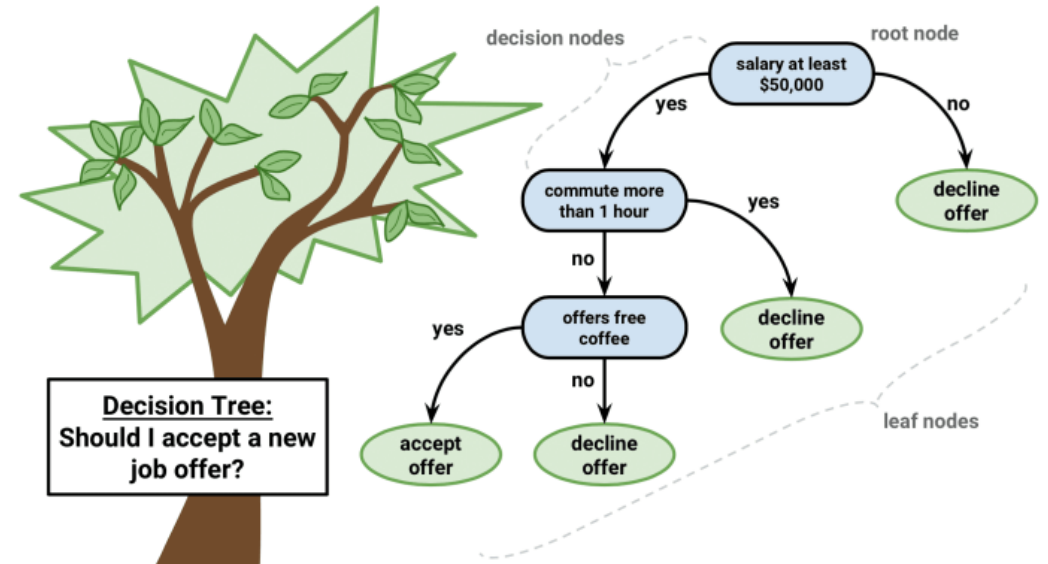
Decision Tree

Advantages:

1. Can be used for both Classification & Regression
2. Easy to interpret
3. No need for normalization or scaling
4. Not sensitive to outliers

Disadvantages:

1. Overfitting issue
2. Small changes in the data alter the tree structure causing instability
3. Training time is relatively higher