Machine Learning 6
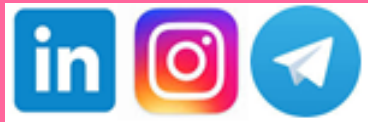
Decision Tree

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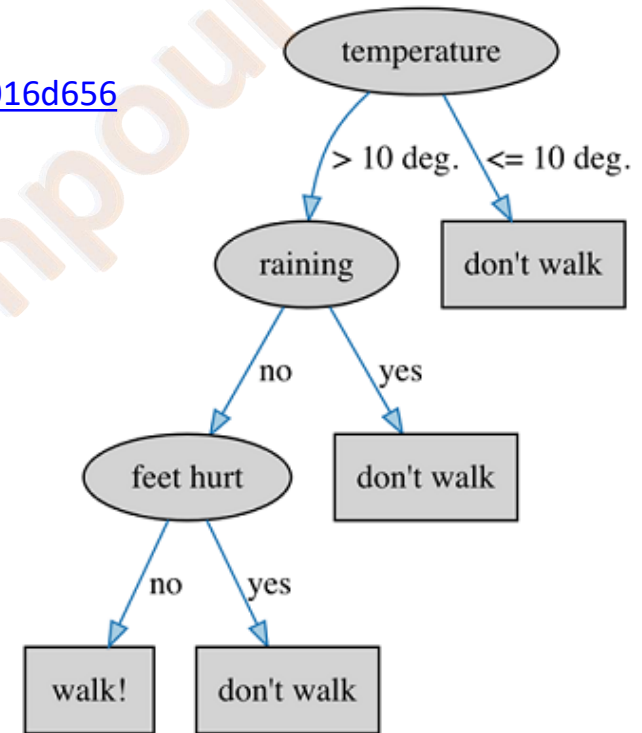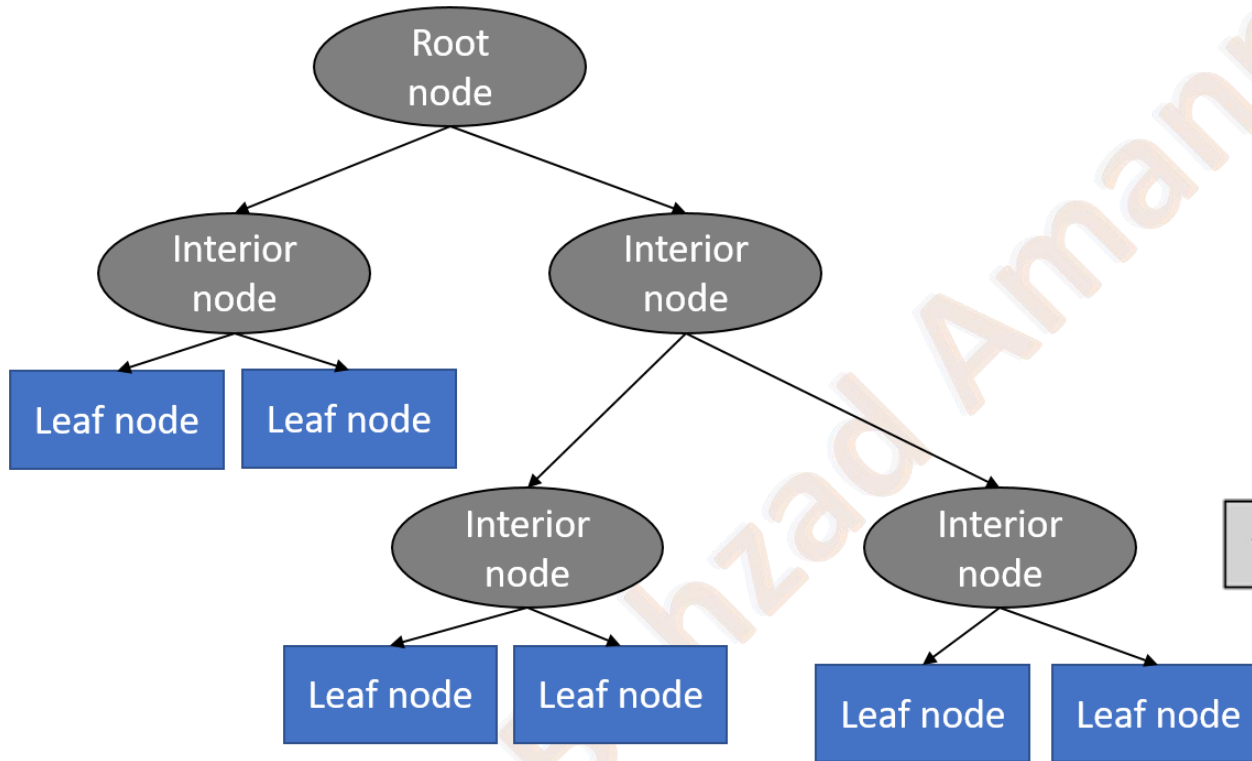
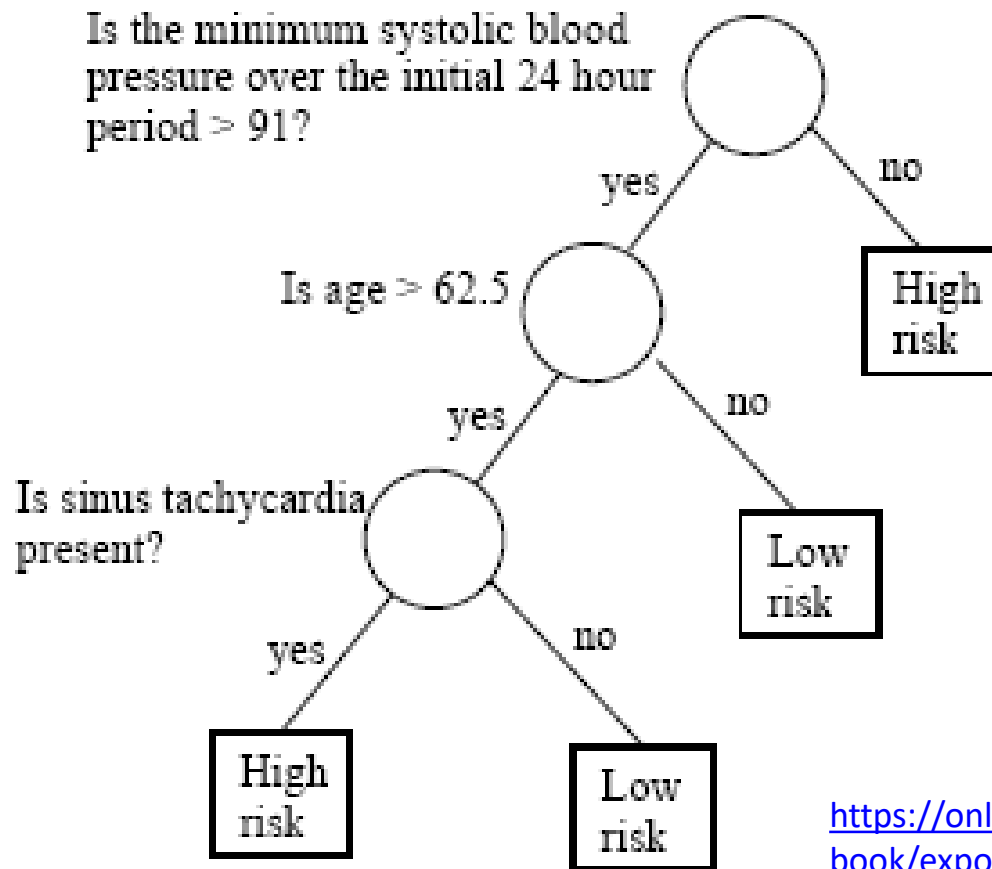# Decision Tree

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Decision Tree (Medical)

Is the minimum systolic blood pressure over the initial 24 hour period > 91?

yes / no

no → High risk

Is age > 62.5

yes / no

no → Low risk

Is sinus tachycardia present?

yes / no

yes → High risk

no → Low risk

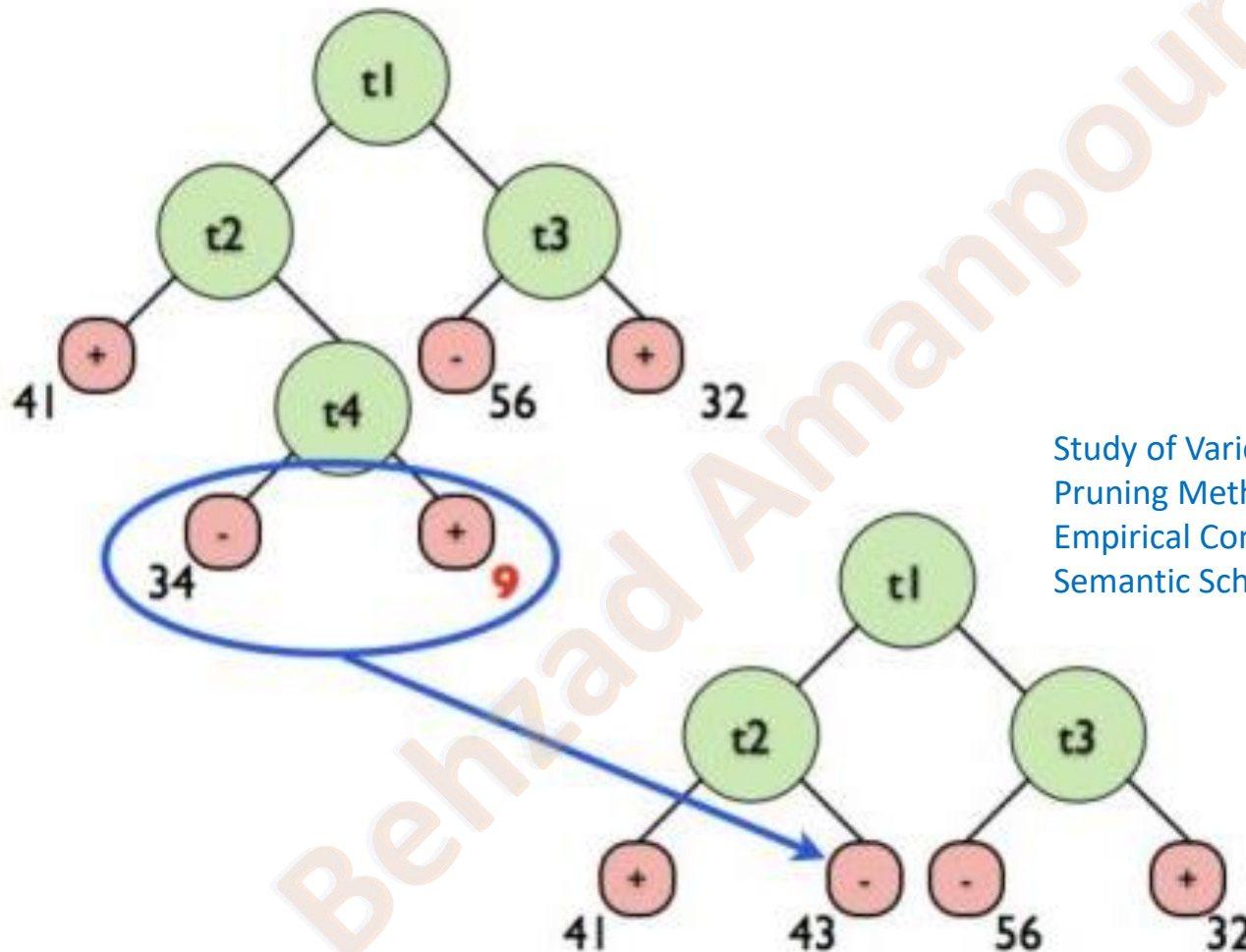https://online.stat.psu.edu/stat508/book/export/html/647

Overfitting
(no limit on the depth and number of nodes)

https://towardsdatascience.com/3-techniques-to-avoid-overfitting-of-decision-trees-1e7d3d985a09

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4
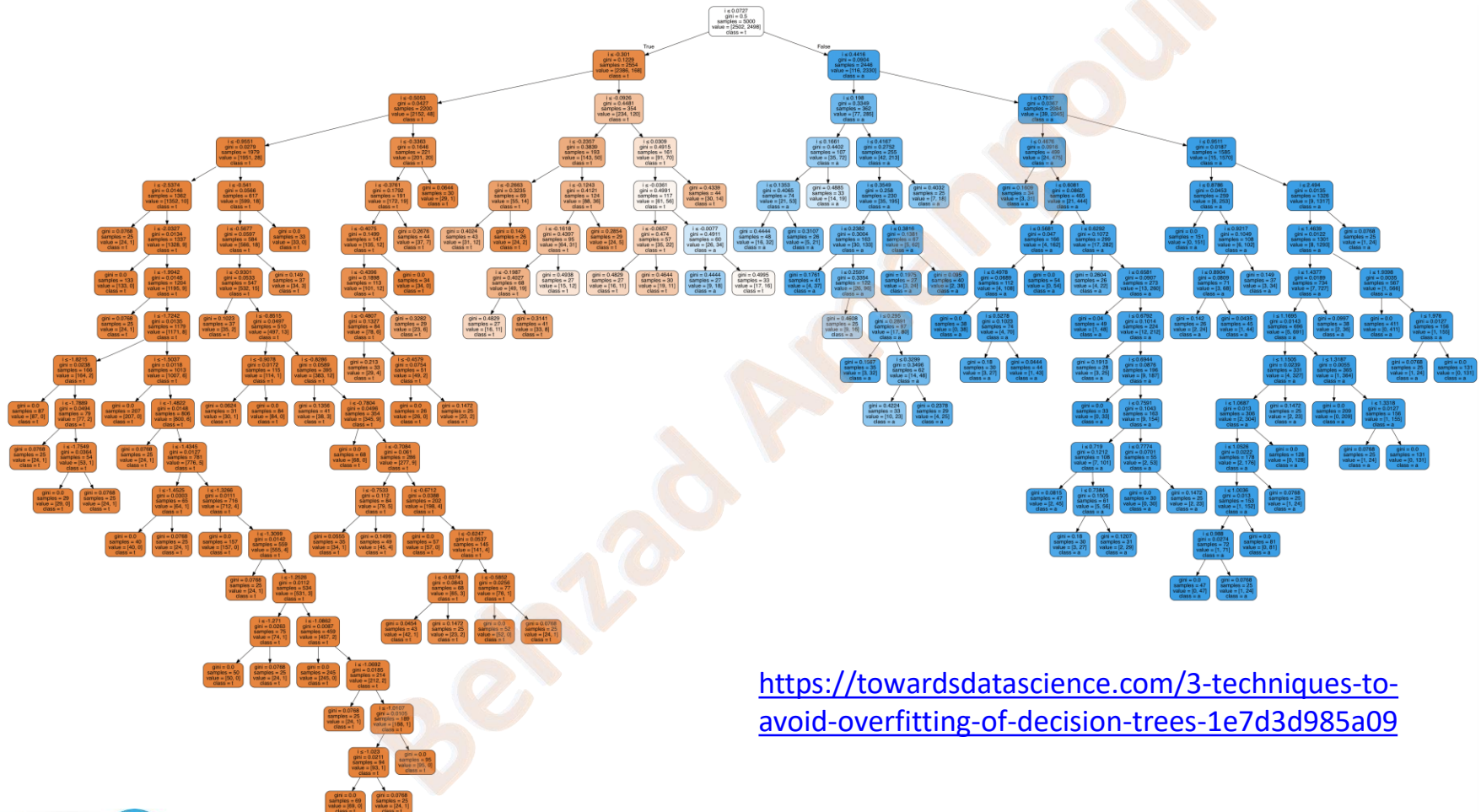
Pruning (Regularization)

Study of Various Decision Tree Pruning Methods with their Empirical Comparison in WEKA | Semantic Scholar