



# Ensemble Methods, Random Forests, and Boosting

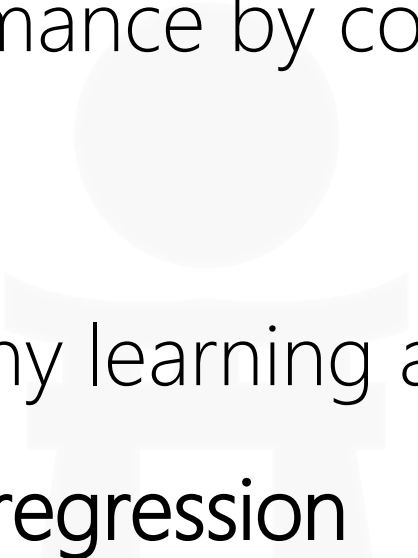
Bagging, Random Forest, Boosting, and AdaBoost

# Agenda

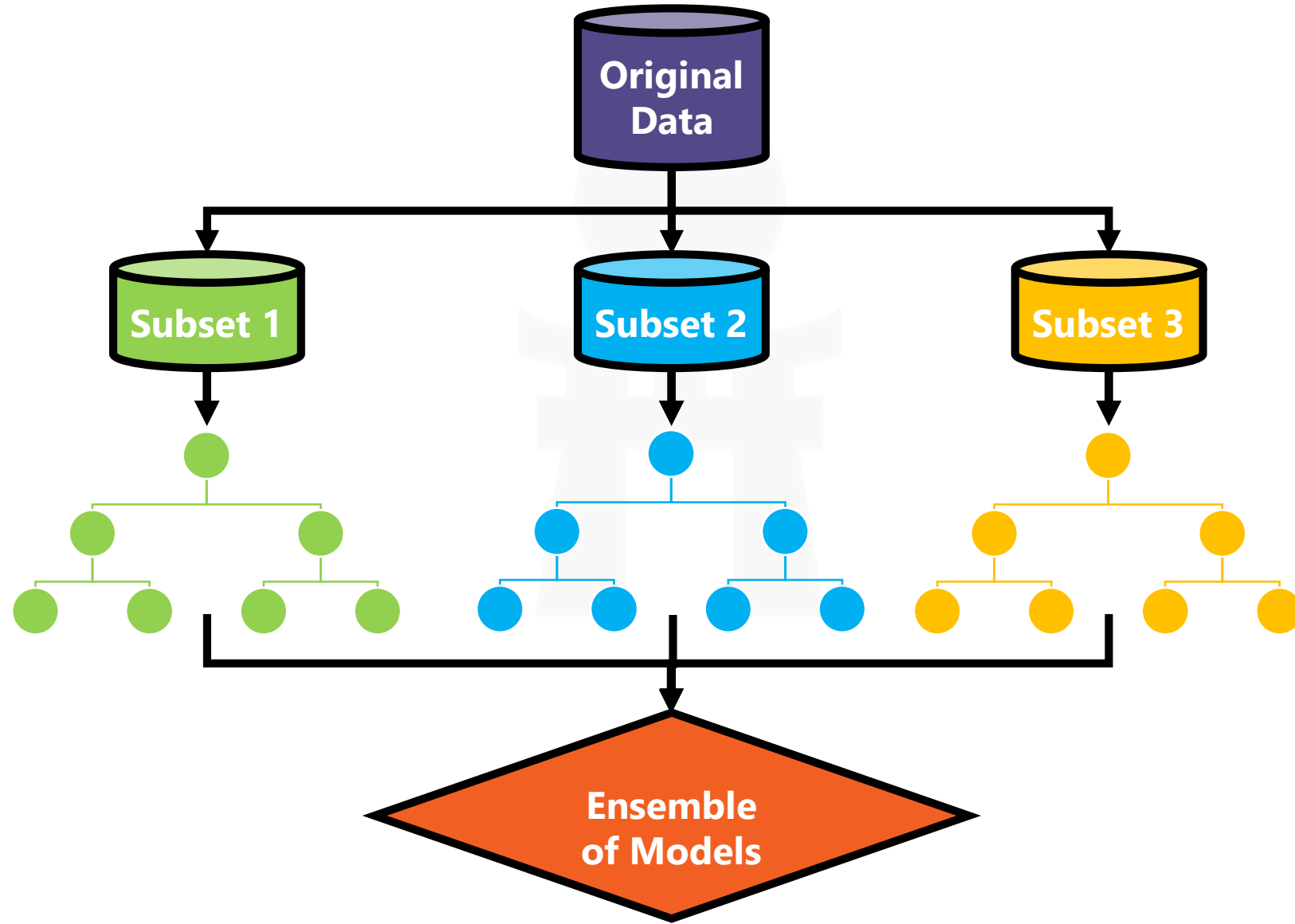
- Overview and rationale
- Why ensemble?
  - Binomial Distribution
- Ensemble models
  - Bagging
  - Random Forests
  - Boosting
  - AdaBoost



# Ensemble Methods

- Improve model performance by combining multiple models
  - Ensembles can be of any learning algorithm, including both **classification** and **regression**
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# Ensemble of Decision Tree Models



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