

Typical exam

- Discuss differences between bagging and boosting
- Discuss how a random forest can be used to estimate the similarity between two instances
- Discuss a hierarchical clustering algorithm
- Discuss the learning process of a binary classification tree
- Discuss the Information Gain splitting criterion
- Discuss how to handle categorical data

Typical exam

- Find the first node of a decision tree predicting the class “PlayTennis” by using the GINI criterion on the following dataset

TRAINING				
Outlook	Temperature	Humidity	Wind	PlayTennis
Sunny	Hot	High	Weak	No
Sunny	Hot	High	Strong	No
Overcast	Hot	High	Weak	Yes
Rain	Mild	High	Weak	Yes
Rain	Cool	Normal	Weak	Yes
Rain	Cool	Normal	Strong	No
Overcast	Cool	Normal	Strong	Yes
Sunny	Mild	High	Weak	No
Sunny	Cool	Normal	Weak	Yes
Rain	Mild	Normal	Weak	Yes
Sunny	Mild	Normal	Strong	Yes
Overcast	Mild	High	Strong	Yes