RECSM Summer School:

Machine Learning for Social Sciences

Session 1.1:

Course Overview

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No.	Торіс
1.1	Introductions and course overview
1.2	Introduction to machine learning
1.3	Assessing model accuracy
Break	
1.4	Shrinkage methods I: ridge regression
1.5	Shrinkage methods II: the lasso
1.6	Application of ridge regression and the lasso

No.	Topic
2.1	Introduction to classification and regression trees
2.2	Advantages and disadvantages of trees
2.3	Bagging, random forests
Break	
2.4	Boosting
2.5	Application I: classification and regression trees
2.6	Application II: bagging, random forests, boosting

No.	Topic
3.1	Introduction to unsupervised learning
3.2	Principal components analysis (PCA)
3.3	K-means clustering
Break	
3.4	Hierarchical clustering
3.5	Application I: PCA
3.6	Application II: clustering methods

General Information

General Information

- Please feel free to stop and ask questions at any time.
- All course materials are available at: http://retowuest.net/recsm-2019/