

# Lecture schedule

1. Introduction  
(Tan 1.1-1.4)

## Data: Feature extraction and visualization

2. Data and feature extraction  
(Tan 2.1-2.3 + B1 (+ A))
3. Measures of similarity and summary statistics  
(Tan 2.4 + 3.1-3.2 + C1-C2)
4. Data visualization  
(Tan 3.3)

## Supervised learning: Classification and regression

5. Decision trees and linear regression  
(Tan 4.1-4.3 + D)
6. Overfitting and performance evaluation  
(Tan 4.4-4.6)
7. Nearest neighbor, naive Bayes, and artificial neural networks  
(Tan 5.2-5.4)

8. Ensemble methods and multi class classifiers  
(Tan 5.6-5.8)

## Unsupervised learning: Clustering and density est.

9. K-means and hierarchical clustering  
(Tan 8.1-8.3+8.5.7)

## 10. Mixture models and association mining (Tan 9.2.2 + 6.1-6.3)

11. Density estimation and anomaly detection  
(Tan 10.1-10.4)

## Machine learning and data modelling in practice

12. Putting it all together: Summary and overview
13. Mini project