Books.

1. James, Gareth, Daniela Witten, Trevor Hastie, and Robert Tibshirani.

“An introduction to statistical learning: with applications in R”, 2017

2. Müller, Andreas and Sarah Guido.

“Introduction to machine learning with Python: a guide for data scientists", 2016.

Evaluation.

6 Assignments (10 marks, each). Please note that only 6 assignments will be given, and all of them will count for evaluation.

Final Exam (40 marks).

Technical Writing / Latex.

All work that is submitted for evaluation (assignments or final exam/report) should follow this format only.

[https://www.overleaf.com](https://www.overleaf.com/latex/templates/ieee-conference-template-example/nsncsyjfmpxy)

This is the IEEE format for conferences, using Latex.

<https://www.overleaf.com/latex/templates/ieee-conference-template-example/nsncsyjfmpxy>

Assignment topics.

Linear regression -- Logistic Regression -- Naive Bayes Classifier -- Decision Trees -- Random Forest -- Support Vector Machines

Design Q, for the week (try before class).

https://www.youtube.com/watch?v=3JN-tA2uGZQ&t=38s