

Competition link:

<https://www.kaggle.com/c/epamdsourseclassification3>

Methods

LDA and QDA

- Linear and Quadratic Discriminant Analysis (sklearn):
 - [base](#)
- Linear discriminant analysis:
 - [further reading](#)
- The Elements of Statistical Learning, p. 106-119:
 - [advanced](#) - “The Elements of Statistical Learning”, Hastie T., Tibshirani R., Friedman J., Section 4.3, p.106-119

Gradient boosting

- A Gentle Introduction to Gradient Boosting, Cheng Li
 - [base](#)
- Boosting article by ODS:
 - <https://mlcourse.ai/articles/topic10-boosting/>
- Gradient Boosting (Wikipedia)
 - [further reading](#)
- Gradient Boosting explained [demonstration]
 - [visualization](#)
- The Elements of Statistical Learning, p. 337:
 - [advanced](#) - “The Elements of Statistical Learning”, Hastie T., Tibshirani R., Friedman J., Section 10, p.337

Random Forest

- An Implementation and Explanation of the Random Forest in Python
 - [base](#)
- The Elements of Statistical Learning, Section 15, p.587
 - [advanced](#)

Ensembling methods

- Comprehensive Guide to Ensemble Learning
 - [Overview](#)

Class imbalance

- About metrics
 - [1](#)
 - [2](#)
- Common strategies to resolve the problem
 - [strategies](#)

Classification problems

- Multiclass and multilabel
 - [Overview](#)
- Metrics
 - [read part2 only](#)