Machine learning notes

* Classification methods used
  + Decision tree
    - Fast
    - Easy to visualize
    - Not the best results
  + Neural network
    - Slow
    - Good results
  + Nearest neighbours
    - Good results
    - Fast computation
  + Random forest
    - Fast
    - Very good results
* Optimisation used
  + Cross-validation
    - Long computation time
    - Works in some cases
    - Trial and error works just as well
  + Oversampling
    - Evens out recall
    - Improves precision of the overfitted class
  + Result comparison
    - Works well
    - Reduces overfitting