# **Introduction to Machine Learning**

May 10, 2019

#### Concept

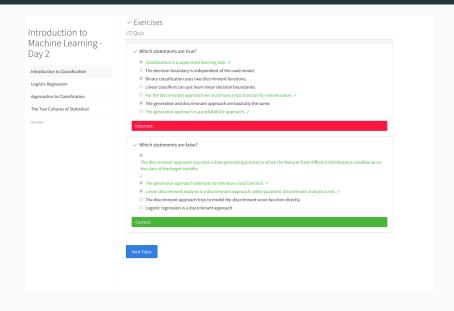
The course is organized as a digital lecture, which should be as self-contained and enable self-study as much as possible:

- Slides with lecture videos
- Interactive tutorials
- Complemented by a week-long inverted-classroom block course

#### **Concept - Lecture Videos**



### **Concept - Interactive Tutorials (Quiz)**



## **Concept - Interactive Tutorials (Examples)**

#### Introduction to Machine Learning -Day 2

Introduction to Classification

Logistic Regression

Approaches to Classification

The Two Cultures of Statistical

(P) Training a logistic regression with non-linear decision boundaries

The next demonstration shows how to include the features <u>Age</u> and <u>Fare</u> as polynomials and the effect on the decision boundary. As mentioned in the video, it is possible to transform a linear classifier into a non-linear classifier by just mapping features into a higher dimensional feature space (feature map):

