# Section 1: Polynomial Regression

## Section 1.1: Description of Polynomial Regression

* Error function used for regression
* Linear regression models
* Least square options
* Polynomial feature expansions
* How to use polynomial features in linear regression
* Difference between training set and test set performance

There are many different kinds of regression analysis a statistical way for estimating the relationship between dependent variables and independent variables. Polynomial Regression is one such method.

## Section 1.2: Implementation of Polynomial Regression

## Section 1.3: Evaluation

# Section 2: K-Means Clustering

## Section 2.1: Description of the K-Means Clustering

## Section 2.2: Implementation of the K-Means Clustering