# Machine Learning with Python: A Practical Introduction

## Module 1: Introduction

## Module 2: Regression

### Theory

Regression is a way of prediction continuous data. One dependant variable y can be predicted from the number of independent variables xn.

Regression can be linear or non-linear. Non-linear regression predicts non-linear relationships between independent and dependant variables. Polynomial regression is a special case of multiple linear regression.

### Technical Part

Object of linear Regression was used with fit() and predict() functions. Polynomial regression was done by transforming x data fit fit\_transform() to create n columns of x data coefficients (n-1 is the power of the polynomial fit). These all almost useless as it will be replaced by using of the pipelines to prepare data and create the regression.