

Introduction to Machine Learning with Python

Week 1: Introduction, getting comfortable with Python and Data Preprocessing

- What is ML?
- How is different from traditional Programming
- Common Myths
- Introduction to Machine Learning
- Prepare Laptop for hands on sessions
- Basics of Python - Hands On
- Data Preprocessing - Hands On

Week 2: Regression

- Linear Regression
- Multiple Regression
- Polynomial Regression
- Decision Trees
- Random Forest
- Support Vector Regression

Week 3: Classification

- Logistic Regression
- Decision Tree
- Random Forest
- K Nearest Neighbours
- Support Vector Machine

Week 4: Neural Networks

- Artificial Neural Networks
- Convolution Neural Networks
- Mini Project: Solve Kaggle Four Shapes Challenge or Red Wine Quality Challenge