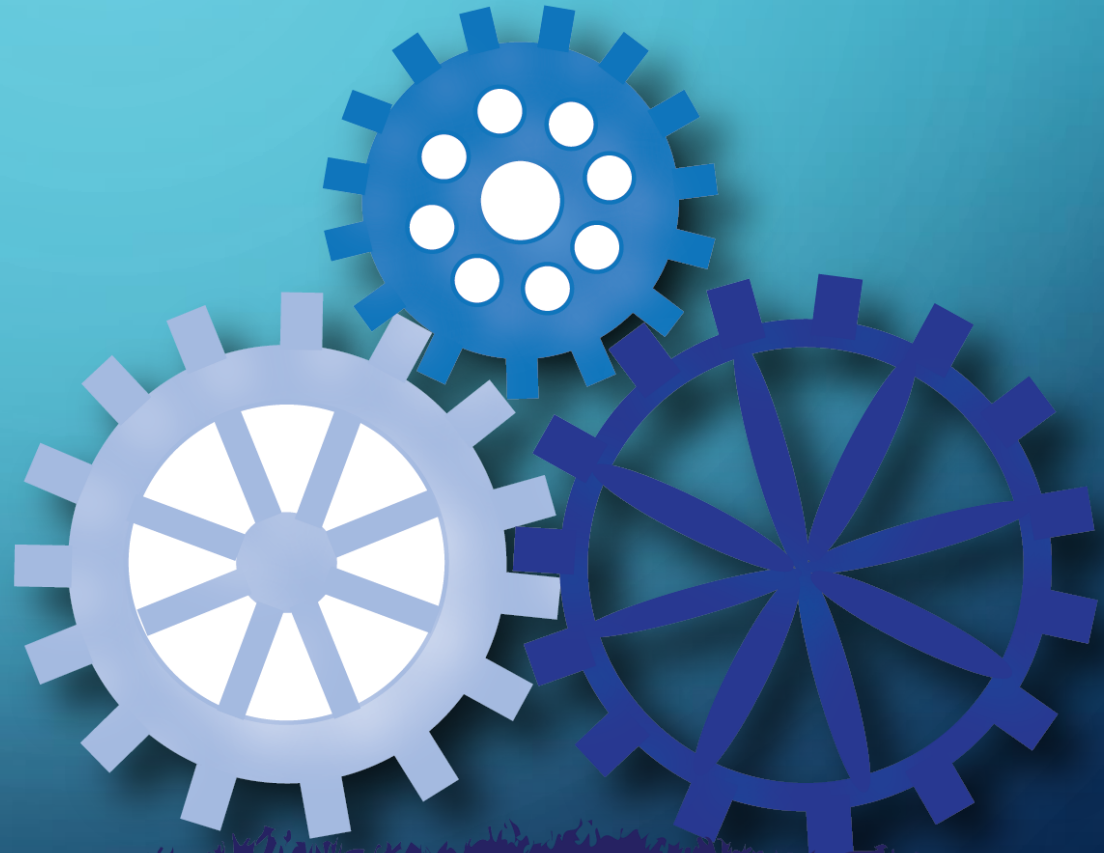


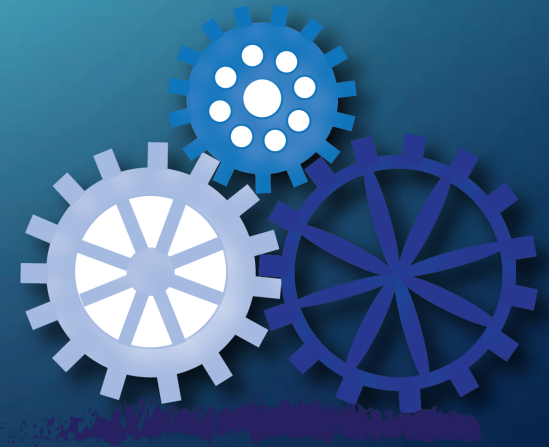
FEATURE SELECTION

Course Curriculum Overview



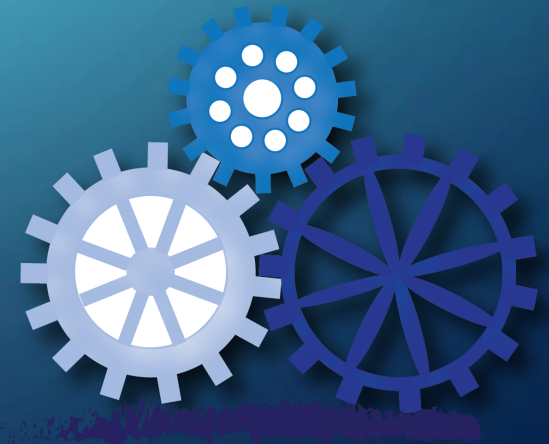
INTRODUCTION

- Course Curriculum Overview
- Pre-requisites
- How to approach this course
- Guide to setting up your computer



FEATURE SELECTION METHODS

- Filter methods
- Wrapper methods
- Embedded methods



FILTER METHODS

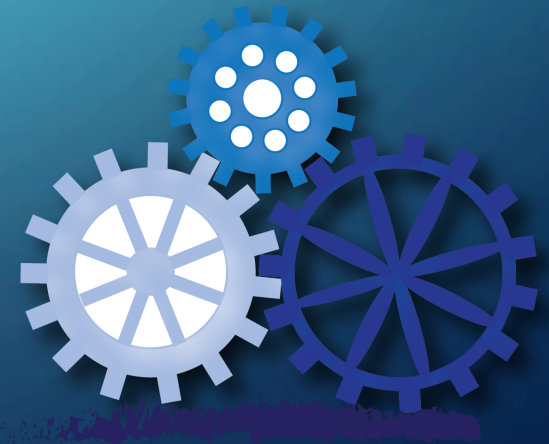
- Basics

- Constant
- Quasi-constant
- Duplicated

- Correlation

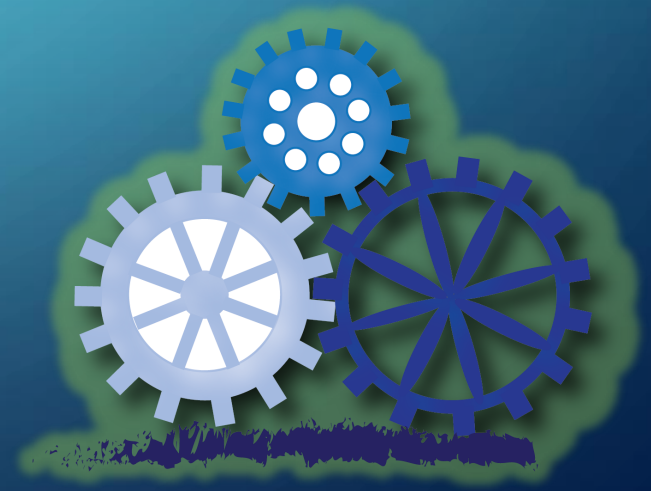
- Statistical measures

- Fisher score
- Univariate methods
- Mutual information



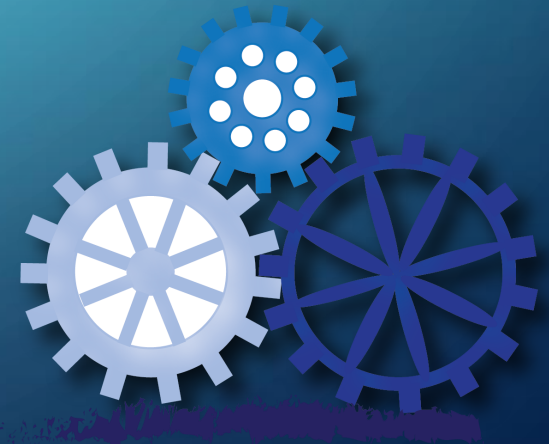
BONUS: ALTERNATIVE FILTER METHODS

**Alternative non-mainstream
methods learnt from Data
Science competitions**



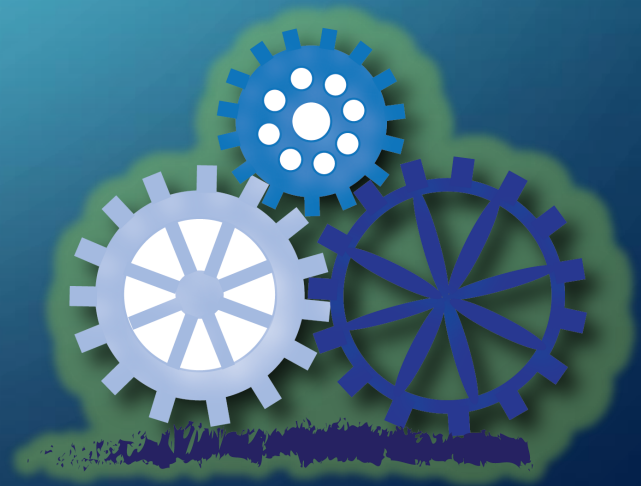
WRAPPER METHODS

- Step forward selection
- Step backward selection
- Exhaustive search



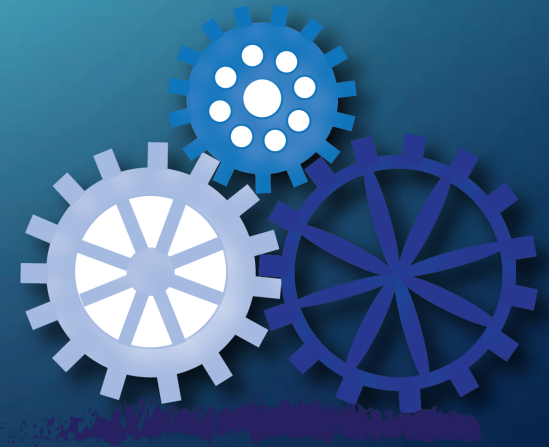
BONUS: ALTERNATIVE WRAPPER METHODS

Feature shuffling



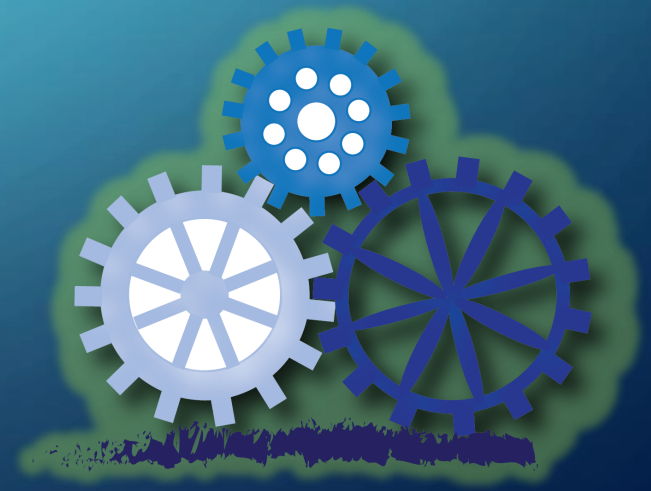
EMBEDDED METHODS

- LASSO
- Decision tree derived importance
- Regression coefficients



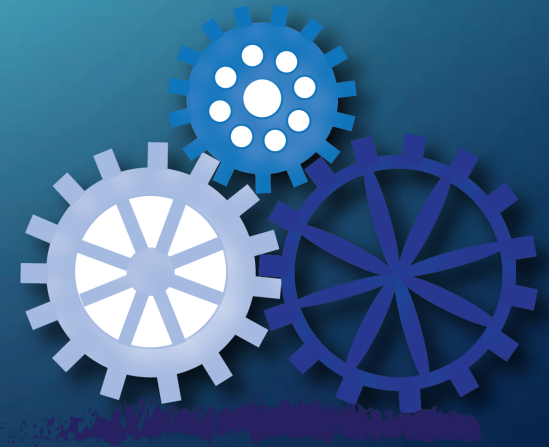
BONUS: HYBRID METHODS

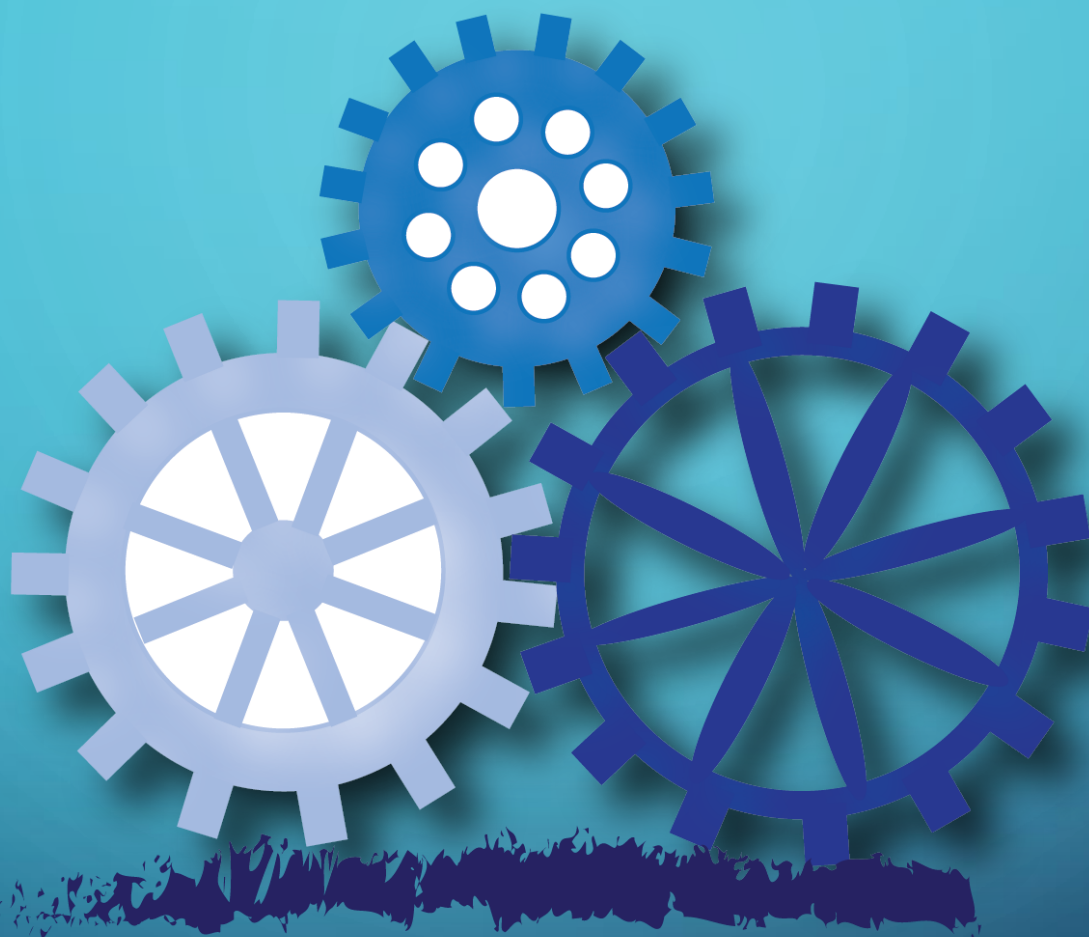
Recursive feature
elimination



HELP AND SUPPORT

- Frequently asked questions
- Links with more information
- Dedicated help from your instructor





FEATURE SELECTION