ST443: Criterion for the projects (30%)

The projects have two parts (i) apply machine learning approaches on real data (15%) and (ii) code in R to implement machine learning algorithms and investigate their sample performance via simulations (15%).

**70 and above - equivalent to a distinction**

An outstanding piece of work in every regard which

demonstrates:

* A thorough understanding of the methodology and its application to the data
* A thorough understanding of the limitations of the methodology in the context of these data
* A thorough and insightful interpretation of the substantive aspect of the analysis
* A thorough and rigorous understanding of the developed algorithm in possible scenarios
* A complete simulation study to compare performance of different methods in all possible scenarios.
* An ability to express an original, reasoned argument in a lucid manner
* An ability to code efficiently and elegantly in R

**60-69 – equivalent to an upper second**

A good piece of work which demonstrates:

* A sound understanding of the methodology and its application to the data
* A good understanding of the limitations of the methodology in the context of these data
* A thorough and clear interpretation of the substantive aspect of the analysis
* A good and rigorous understanding of the developed algorithm in at least one scenario
* A complete simulation study to compare performance of different methods in some scenarios.
* An ability to express a clear, convincing argument
* An ability to code clearly and efficiently in R

**50-59 – equivalent to a lower second**

A fair piece of work which demonstrates:

* A reasonable understanding of the methodology and its application to the data
* A familiarity with the limitations of the methodology in the context of these data
* A general idea of how to interpret the substantive aspects of the analysis
* A reasonable understanding of the developed algorithm in at least one scenario
* A simulation study to compare performance of different methods in several scenarios.
* Some ability to express a clear argument
* Some ability to code clearly and efficiently in R

**40-49 – equivalent to a third**

Work at this level will demonstrate:

* A general but incomplete understanding of the methodology and its application to the data
* A general but incomplete understanding of the limitations of the methodology in the context of these data
* A general but incomplete understanding of the developed algorithm in at least one scenario
* An incomplete simulation study to compare performance of different methods in limited scenarios.
* Some ability to interpret the substantive aspects of the analysis
* Some ability to express a clear argument
* Be able to produce an R code that runs with no errors

**39 and under – equivalent to a fail**

Work at this level will demonstrate:

* A limited understanding of the methodology and its application to the data
* A limited understanding of the limitations of the methodology in the context of these data
* A limited understanding of developed algorithm
* An incomplete simulation study, failing to compare performance of different methods
* A lack of ability to interpret the substantive aspects of the analysis
* Lack of ability to express a clear argument
* Unable to produce an R code that runs with no errors