

Introduction

After completing the data analyses and refining the literature review based on your understanding of the information that you use to develop the proposed models, in this stage of the project, you need to document the data analysis procedures and evaluate the developed machine learning models from three areas:

- **Effectiveness**, by selecting and applying a set of valid measures to test the performance of the models
- **Efficiency**, by measuring the time each model took to be trained or tested
- **Stability**, by ensuring that each model generates robust and significant results

Before writing up and interpreting the findings, you need to document the statistical analyses that have been used to compare the developed models, to decide which model outperforms the others. Notably, there should be a section covering the analysis limitations, study implications, ethical considerations, project continuity, and critical insights on improving the work.

Topics and Learning Objectives

Topics

- Combining the literature review with the quantitative analyses
- Building and evaluating the proposed modes from different perspectives
- Listing the limitations of the work
- Revisiting the research questions and work implications to interpret the results

Learning Objectives

By the end of the module, you will be able to:

- Highlight the differences between your results and similar ones in the literature review
- Fully interpret the achieved results of your proposed methodology
- Evaluate the shortcomings of your research and how to improve it

Assessments

Final Results and Project Report (35% of your final grade)

The final report (a minimum of 25 pages following the [Toronto Metropolitan University report template](https://de.ryerson.ca/de_courses/templates/m/?c=A76DA37101DFFABE00E5D636C01719B6&m=4&p=217996)) should contain:

- A revised version of the research questions
- The main contribution of the work compared to past research
- A link to the GitHub repository where the source code files are checked in
- A more precise description of the applied methodology and the study design

- The conducted analyses, including all activities and their business rules
- A list of all the findings, including a detailed interpretation of the results of the applied techniques
- The shortcomings of the work and concluding remarks on the continuity of the work
- A references page, using APA style

This assignment is due by 11:59 p.m. EST on Monday of Week 12. Submit your assignment to the D2L “Final Results and Project Report” assignment link. Late submissions will be penalized with 10% loss a day, up to a maximum of five business days. After five business days, it is up to the designated supervisor to accept or reject your submission. In the case of acceptance, the submission should be marked out of 50%.