

## Project - Phase 2-

---

**Description:** The project is split into three phases that match the learning outcomes throughout the course. Each phase accounts for 10% of your total grade.

**Guidelines:** The aim of this project is to demonstrate your ability to apply and discuss the outcomes of various data mining techniques on a problem and a dataset of your interest.

- The dataset must include quantitative and qualitative attributes.
- Your work should not be limited to what you learn in the practical sessions of the course.
- You must submit an [R markdown](#), knitted as a pdf file, for every phase.
- You can work in a group of two – same group in all phases.
- Your grade will be subject to a 5% penalty for every day of submission delay.

- **Phase II: (10%) due Wednesday, Nov. 15, 11:59pm.**

- Choose a dataset with a quantitative response, and discuss your choice with me. (1%)
  - **N.B.** Your dataset should not be associated with any existing work related to the required tasks – e.g., on kaggle, Github, ...
- Apply logistic regression, linear, and quadratic discriminant analysis techniques. (4%)
- Include resampling techniques in your work, and compare the performance of the generated classifiers accordingly. Use appropriate comparison measures, tables, and graphs. (3%)
- Use subset selection approaches with different measures. (3%)

For each phase, make sure to highlight the following in your R markdown pdf file:

- Dataset description including context and features
- Data mining tasks
- Model performance
- Results
- Comparison of results
- Comments and interpretation

Name of your R markdown pdf file following this template: NameOfTeamMember1-NameOfTeamMember2\_Phase PhaseNumber.