**Graduate Independent Project**

In order to receive graduate credit for this course you must complete an independent project. This project is 20% of your total grade. The independent project is a self-directed open-ended effort.

You must find a dataset and address an interesting and original analytics problem of your choosing with this dataset. Datasets can come from any number of sources. Ideally, you should find a data set in which you are particularly interested in.

**Submitting your project**

You are required to submit a report on the results of your analysis. Guidelines for performing your project and submitting your report include:

1. All work performed on your project must be by you alone. However, you are encouraged to ask for advice from instructors and students. You may provide advice to other students.
2. You must present your findings in a professional style report! Your report should be in a style you would use to present results of a data science project to your management, sponsors or clients. Your presentation must include a clear discussion of your results, supported by scientific evidence in the form of computed tables and charts.
3. At the minimum, your presentation must include:
   * An introduction with a statement of the problem you are addressing and a summary of your conclusions.
   * Exploration of the dataset supported by charts and summary statistics. Examine several aspects of the dataset. Explain which aspects are important to your problem and why.
   * Apply some analytical models to create a solution for the problem you have chosen. Chose models from those discussed in course. Explain your choice of models and discuss inferences made from the model results using text, charts and tables in your report.
4. Your report can be submitted in html, pdf, or Word formats. Your report must be self-contained and complete. In no case, can the instructors run your code, Azure ML project, Jupyter notebook, markdown file, or examine your data files
5. Any code you use must be provided for grading. You must use professional coding standards and techniques including at least: – Proper code comments so that the instructors can understand your code. – Code written in a maintainable style. You code should use functions, minimize redundant code, and minimize hard-coded variables, etc.

**Graduate Independent Project**

In order to receive graduate credit for this course you must complete an independent project. This project is 20% of your total grade. The independent project is a self-directed open-ended effort.

You must find a dataset and address an interesting and original analytics problem of your choosing with this dataset. Datasets can come from any number of sources. Ideally, you should find a data set in which you are particularly interested in.

All work performed on your project must be by you alone. However, you are encouraged to ask for advice from instructors and students. You may provide advice to other students.

You must present your findings in a professional style report! Your report should be in a style you would use to present results of a data science project to your management, sponsors or clients.

Your presentation must include a clear discussion of your results, supported by scientific evidence in the form of computed tables and charts.

**Submitting your project**

You are required to submit a report on the results of your analysis. Guidelines for performing your project and submitting your report include:

* An introduction with a statement of the problem you are addressing and a summary of your conclusions.
* Exploration of the dataset supported by charts and summary statistics. Examine several aspects of the dataset. Explain which aspects are important to your problem and why.
* Apply some analytical models to create a solution for the problem you have chosen. Chose models from those discussed in course. Explain your choice of models and discuss inferences made from the model results using text, charts and tables in your report.
* Your report can be submitted in html, pdf, or Word formats. Your report must be self-contained and complete. In no case, can the instructors run your code, Azure ML project, Jupyter notebook, markdown file, or examine your data files
* Any code you use must be provided for grading. You must use professional coding standards and techniques including at least:   
  – Proper code comments so that the instructors can understand your code.   
  – Code written in a maintainable style. You code should use functions, minimize redundant code, and minimize hard-coded variables, etc.

Finally, there is a link to an example of a report in on the home page of the course.