

Term Project Milestone 1

Independent Project Plan

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DSC630-T302 Predictive Analytics (2241-1)

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Milestone 1 (Project Plan) – Week 1

- Create a project plan of what tasks will be performed for each Milestone.
 - List the requirements for each Milestone
 - Describe weekly tasks to be performed toward each Milestone
- Create a Teams folder for the project.
- Identify a classmate to perform the Milestone 2 Peer Review.
 - Barbara Jean will be performing my Milestone 2 Peer Review

Milestone 2 (Data Selection and Project Proposal) – Week 2

- Develop ideas for business-related issues to be explored using predictive analytics. The final selection must be interesting and robust enough to create a 10 to 15 minute presentation in Milestone 5.
- Research available sources for data in sufficient quantity and complexity and use predictive analytics to create a workable solution.
- Write a project proposal describing the selected data and models used for the chosen business-related issue. Also included will be how the results will be evaluated and interpreted, ethical concerns, and any risks that might be associated with this proposal.
- Identify a contingency plan (Plan B) to be used if the original topic and data do not satisfy the project requirements

Milestone 3 (Preliminary Analysis) – Week 6

- Determine if the dataset will address the business issue from Milestone 2 and research which visualizations to use for the Milestone 5 presentation best convey the analysis results. (Weeks 4 and 5)

- If necessary, implement the contingency plan. Rewrite Milestone 2 and research visualizations related to the alternative business issue and presentation. (Weeks 4 and 5)
- Identify any adjustments needed to the data or to the analytic models. (Week 6)
- Write up Milestone 3 to present the preliminary analysis. (Week 6)

Milestone 4 (Finalizing the Results) – Week 9

- Identify any ethical implications associated with this project. (Week 7)
- Prepare data for analysis by removing unnecessary columns, replacing NULLs/NaNs, and standardizing information within individual columns. Build, train, and evaluate the predictive analysis models and interpret the results. (Weeks 7 and 8)
- Write up Milestone 4 with the data preparation process, initial conclusions, and recommendations based on the predictive analysis results. (Week 9)

Milestone 5 (Final Project Paper and Presentation) – Week 12

- Write the term paper with an introduction, applied methods, a summary of the results, and a final conclusion. (Weeks 10 and 11)
- Create a 10 to 15 minute presentation with visualizations explaining the analysis results and recommended solutions to the identified business issue. (Week 12)

Milestone Peer Reviews

- Week 3 – Milestone 2
- Week 7 – Milestone 3
- Week 10 – Milestone 4