	Assessment:	Project Milestone 6
	Subject:	Business Intelligence 381
	Total:	100

Project Milestone 6: Final Report and Presentation

Introduction

This project will investigate various health and demographic datasets to identify meaningful patterns and trends. The details of the project requirements are described in the **Project Outline** document. The project outline underscores the use of CRISP-DM as a structured approach to guide you through the data science project, emphasizing its importance in the context of real-world data analysis and modelling.

Outline

The project is divided into six (6) milestones, where at each stage some deliverables are to be produced in terms of a series of reports that describe the project plan, the work carried out during the iterative process of data preparation, modelling, evaluation, and deployment.

The CRISP-DM methodology breaks down a data mining project life cycle into six phases with each phase consisting of many secondary tasks. This milestone addresses the *Deployment Phase* of CRISP-DM.

Deployment


Deployment is the sixth and final phase of the CRISP-DM methodology and comes after the evaluation phase. The models created during the modelling phase are not particularly useful unless the results are available for use by the intended audience. The solutions generated in the modelling phase are only valuable if they are put into action. The objective of the deployment phase is to take the solutions generated in the modelling phase and put them in an environment where they can be used to drive business value. This phase is critical to the success of the data mining process because without proper deployment, the business benefits of the project are not realised despite all the efforts that went into the project.

Tasks

This milestone consists of the following tasks that should be submitted as an assignment on given due date. The focus of this milestone are the last two tasks of the Deployment Phase.

Produce Final Report

- Summarise the project and your experiences.
- Produce a final report (in PDF or document format) detailing all project steps, key findings, ethical implications and recommendations for improvement.
- Include all the previous deliverables and summary of the results.
- Include a section on ethical analysis, detailing the ethical challenges encountered when handling sensitive information and how these were addressed.
- **The final report should not be more than 8 pages long (approximately 2000 to 3000 words 1.5 line spacing and font size 11 or 12) excluding cover page, table of contents, references, and other front matter.**
- Prepare a final demo and presentation of the data mining model and results.

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Review Project

- Summarise important experiences made during the project (what went well, what could have been better, and what improvements can be made in the future)
- Discuss your overall learning experience (what have you learned, how relevant are the knowledge and skills gained from this project, how can the projects be handled in future)

Ensure that all your code is well-organized according to the CRISP-DM steps, thoroughly documented, uses appropriate data science libraries and tools, runs without errors, produces correct results, and is optimized for efficiency and performance.


IMPORTANT NOTE: *This project encourages originality and recognizes that there may not be a single correct answer to every aspect of the problem. Even though the emphasis is on CRISP-DM, applying the same methodology to the same business problem does not necessarily yield the same outcomes. The key is to make informed and sound decisions that align with the expectations of a data science project. The success of this project will be judged not only by the final outcome but also by the rigour, creativity, and thoughtfulness applied to the various stages of the project. A well-documented and well-justified project demonstrates a thorough understanding of data science principles and practices, which is a key objective of this project. **Any plagiarised work will receive a zero (0) for the project and disciplinary action will be taken.***

Deliverables:

- Final Project Report in PDF format (not more than 8 pages of content).
- Presentation (not more than 10 slides of content)
- Final project files and code (R Markdown) developed throughout the project.
- Power BI Project file or Shiny app for visual storytelling and interactive dashboards.
- If the code is hosted on a cloud repository or version control platform like GitHub, GitLab, BitBucket and SourceForge, also provide the link to the code repository as part of the report.
- Project files and/or code for any other tools used during this assignment.

Grading Criteria:

Criteria	Weight
Introduction	5
Business Objectives	5
Data Mining Goals	5
Project Team Organisation	5
Data Exploration and Quality Assessment	10
Data Preparation	10
Modelling	10
Model Evaluation	10
Deployment and Maintenance	10
Ethical Considerations	5
Conclusion and Reflection	5
Visual Storytelling and Interactivity	10
Project Files and Code	10
TOTAL	100

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Additional Information

- This is a group assignment. Please continue with your project groups. Remember that a group must have at least 2 members but may not exceed four people.
- All work must be original. Copying another group's work will not be tolerated.
- Includes names of all group members on the Cover Page.
- Submit your project electronically on Moodle (BC Connect) before the due date.
- All writing must be correctly cited and referenced.
- **Plagiarism is a serious offence.** Belgium Campus uses software that can scan for plagiarism and a student caught doing this will get 0 for this assignment.
- No mark will be awarded if the assignment is not uploaded via BC Connect.
- Late assignments will not be accepted; missing the deadline is an automatic 0.