CDS 590 Consultancy Project & Practicum Report Outline

Cover page, Declaration, Acknowledgement

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Abstract

The whole project in miniature, and stand on its own. Should include:

- Practicum Experience
- Problem statement
- Objectives
- DSA technique used in the project
- Results
- Main conclusion (lesson learned)

Introduction & Related Works

- Background
 - o Practicum company
 - o Domain / context
- Problem statement state the problems within the chosen domain / context
- Objectives of project
- Benefit of project
- Review relevant /related works on
 - o Domain / context
 - Data Science & Analytics techniques
 - Data Science & Analytics tools

Research Methodology

- Activities plan and gantt chart
- Data science project lifecycle
- What did you do during the practicum (analyse the problem)
 - Initial questions
 - Specific use case to be addressed
 - Exploratory data analysis
 - Final Analysis
- How did you do it (solving the problem using DSA techniques and tools)
 - o proposed solution(s)
- Justification on selected DSA technique and tools (e.g. what and why the specific DSA technique is chosen)

Results and Discussion

- Organise according to objectives of project
- What have been achieved / not achieved (why)

- Compare results from the project to related literature
- Challenges & solutions
- Describe how the practicum experience help to apply what you have learned in class
- Describe your observation made during practicum related to professional and operational issues

Conclusion & Lesson Learned

- Main conclusion from practicum experience
- Describe any lesson learned from the experience
- Discuss any new opportunity that you would like to explore further
- Describe data science pipeline and theories used or not viewed as useful in the practicum
- Suggest how the practicum or your preparation for it might be improved
- Describe how the practicum experience integrated the student's coursework in the DSA program

References

- List down all the references from books, journals, proceedings, websites, manual etc.
- Reference Style: APA.

Appendices

• Log book, plan, relevent data sheet.