**School of Computing and Information Systems**

**The University of Melbourne**

**COMP20008, Elements of Data Processing, Semester 1, 2024**

**Assignment 2 - Group Contract**

**Group Name:** Group 9

**Workshop:** [Tuesday 14:15-15:45]

**Tutor**: Abby (Meng) Yuan

**Group Members:**

* [Jiashao Chen] – [1420550] - [jiashaoc@student.unimelb.edu.au]
* [Alexandra Zhang] – [1335595] - [alexandraz1@student.unimelb.edu.au]
* [Yubo Wang] – [1455881] - [Yubow2@student.unimelb.edu.au]

**Research Question: How do user characteristics and rating patterns differ among users with high engagement levels in rating system (users who have left at least 100 reviews)?**

Some potential analysis/conclusions that can be drawn from this research question:

* Do certain age groups rate more books than others?
* Are there common authors or publishers among the users with at least 100 reviews who are rated highly?

This research question would give us a more helpful conclusions for the bookstore as it targets the loyal customers who keep coming back (have left at least 100 reviews).

**Project Overview:**

* Filter based on number of reviews -> only analyse the users who left at least 100 reviews
* Filter range, format, semantic errors and missing data – data imputation, data scaling, converting data, discretising data
* Comment on all the things we filtered out
* Merge data into one table (book + rating user id) + get rid of unnecessary columns
* Once we have filtered, we can see if there are any common features of these users – which country is most common, which age range is most common -> and then if there are any commonalities between ratings for certain authors between these users

**Roles and Responsibilities:**

Finish delegated tasks on time, be active in communication, be respectful

Specify the roles each group member will undertake throughout the project. Define the tasks, responsibilities, and contributions expected from each member. Ensure that roles are distributed fairly and leverage each member's strengths.

|  |  |
| --- | --- |
| Member Name | Role and Responsibilities |
| Jiashao Chen | Finish delegated tasks on time, be active in communication, be respectful   * Data cleaning/filtering * Data processing * PPT/docx making |
| Alexandra Zhang | Finish delegated tasks on time, be active in communication, be respectful   * Group contract finalisation * Data cleaning * Data processing/analysis * Report writing * Oral presentation preparing |
| Yubo Wang | Finish delegated tasks on time, be active in communication, be respectful   * Data pre-processing * Data modelling * Report finalisation * Oral presentation preparing |

**Communication Plan:**

1. Show up to all workshops
2. Dm through messages outside of workshop hours
3. If they don’t respond on messages, call them
4. If they don’t pick up phone, see them in person either at workshops or during meetings at uni

**Meeting Schedule:**

Regular meeting times: 2x week apart from workshops, Monday 7pm-9pm, Friday 7pm-9pm

Expectations:

* Be punctual
* Be present and have active discussion, voice concerns and disagreements on the spot
* Don't keep stuff to yourself

**Decision-Making Process:**

Since we only have 3 people, everyone can just voice their opinions and we can compromise and have a civil discussion, evaluating pros and cons and respectfully agree on a unanimous decision.

Method for resolving conflicts:

1. Communication - understand the perspective the other team member is coming from
2. Identify the source of conflict
3. Compromise through evaluating pros and cons and discussion

**Work Plan and Timeline:**

Group contract & Project – code

|  |  |
| --- | --- |
| **19-23 April** | Research question, project overview, roles and responsibilities, data preprocessing/cleaning |
| **24-29 April** | Rest of the group contract document, data processing/analysis |
| **30 April-5 May** | Data analysis/modelling, report drafting, oral presentation preparing |
| **6 –10 May** | Report finalising, oral presentation finalisation, review & revisions |
| **11-13 May** | Oral presentation rehearsals |

**Code of Conduct:**

Equally contribute, participate and be present in group meetings and respect everyone’s contributions. Everyone should be held accountable for their tasks and ask for help if needed. If anyone is underperforming, we will reach out and make sure they are okay and can receive help if needed.

**Disagreements or non-responsiveness:**

If there is a disagreement or any non-responsiveness, we will reach out to them directly and if they still don’t respond, we will communicate what’s happening with the tutor to see if they can get a hold of that group member. We will report whatever happens in the peer evaluation form.

**Signature:**

By signing below, each group member acknowledges their commitment to adhere to the terms outlined in this contract.

Student 1: \_\_\_\_\_\_\_\_\_ Date: \_25/04/2024\_\_

Student 2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_25/04/24\_\_\_\_\_\_\_\_

Student 3: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_



This contract is intended to establish clear expectations and promote effective collaboration among group members throughout the duration of the data analytics project. Any amendments to this contract should be discussed and agreed upon by all group members.