Samanta Rajib

DSC 630

**Project Milestone 1**

**Week 1: Milestone 1**

* Project Definition and Planning
* Establish a Teams folder for future milestone submissions.

‘Group - Daniel Venkataraghavan Rajib’

**Group Project Team : 1.** Daniel Angel

2. Venkataraghavan Thottiyam

3. Rajib Ratan Samanta

**Method of communication  :** Teams, WhatsApp group

To achieve Milestone 1, I will align my schedule with the course project timeline, acknowledging that adjustments will be made weekly once my weekly schedule is delivered the Saturday before the following week. Over the next 12 weeks, I'll provide a hopeful overview of the steps I'll take to complete various tasks.

**Week 2: Milestone 2 / Peer Review**

* Identify and select data sources.
* Define the project topic.
* Construct a project proposal outlining the problem, preliminary requirements, expected results, and project execution and management.
* Connect with a peer engaged in an individual project through Teams.
* Complete the Individual Peer Review Form.

In the early part of Week 2, We'll initiate the search for a suitable data source. Additionally, I'll reach out to a peer for a collaborative review of our project.

**Week 3: Work on Milestone 3**

* Clean the data by handling missing values, outliers, and any inconsistencies.
* Perform exploratory data analysis (EDA) to understand the characteristics of the dataset.
* Initiate code development for the analysis.

This week, we will start working on the preliminary analysis using Python programming language. Will focus on building up the necessary code by the end of Week 3.

**Week 4: Peer Review**

* Identify a peer conducting an independent project through Teams.
* Complete the Individual Peer Review Form.

The beginning of the week will involve identifying a peer for the peer review process, with the aim of completing this task by the early weekend.

**Week 5: Milestone 3**

* Preliminary analysis.
* Normalize or scale numerical features and encode categorical variables.

Building on the analysis started in Week 3, We will finalize the paper for submission by the end of Week 5.

**Week 6: Peer Review**

* Identify a peer conducting an independent project through Teams.
* Complete the Individual Peer Review Form.

We will start the week finding out who will do the peer review for so we can accomplish this task by the weekend.

**Week 7: Work on Milestone 4**

* Commence building the project presentation.
* Select appropriate predictive models based on the nature of the problem (e.g., regression, classification).
* Evaluate Performance Metrics: Use relevant metrics (e.g., accuracy, precision, recall, F1-score) to assess model performance.

Utilizing the end of Week 7, We will start constructing the presentation required for Milestone 4.

**Week 8: Peer Review**

* Identify a peer conducting an independent project through Teams.
* Complete the Individual Peer Review Form.

As with previous weeks, we will start the week by identifying a peer for the review, with completion targeted for the early weekend.

**Week 9: Milestone 4**

* Deliver project presentation and status.
  + Build PowerPoint of intermediate results

Continuing from Week 7, We will refine the presentation and project status for submission.

**Week 10: Peer Review**

* Identify a peer conducting an independent project through Teams.
* Complete the Individual Peer Review Form.
* Conduct a post-project review to identify lessons learned and areas for improvement.
* Based on feedback and insights gained, iterate on the predictive analysis process for continuous improvement

We will start the week finding out who will do the peer review for so we can accomplish this task by the weekend.

**Week 11: Work on Milestone 5**

* Initiate the final presentation.
* Begin drafting the final paper.

Towards the end of Week 11, we will work concurrently on the final presentation and paper to maintain organizational efficiency throughout the project.

**Week 12: Milestone 5 / Peer Review**

* Deliver the course presentation.
* Submit the final course paper.
* Identify a peer conducting an independent project through Teams.
* Complete the Individual Peer Review Form.

In Week 12, we will continue working on the tasks initiated in Week 11, finalizing both the presentation and paper for submission

**Schedule:**

Using the provided format from the example:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Week** | **Milestone** | **Task** | **MON** | **TUE** | **WED** | **THU** | **FRI** | **SAT** | **SUN** |
| 1 | 1 | Craft rough project plan |  |  | x | x |  |  |  |
| 1 | 1 | Create Teams folder |  |  | x |  |  |  |  |
| 2 | 2 | Select data | x | x | x | x |  |  |  |
| 2 | 2 | Decide topic | x | x | x | x |  |  |  |
| 2 | 2 | Build project proposal |  |  | x | x | x | x |  |
| 2 |  | Peer Review | x | x | x | x | x |  |  |
| 3 |  | Work on Milestone 3 | x | x | x | x | x | x |  |
| 4 |  | Peer Review | x | x | x | x | x |  |  |
| 5 | 3 | Preliminary analysis | x | x | x | x | x | x | x |
| 6 |  | Peer Review | x | x | x | x | x |  |  |
| 7 |  | Work on Milestone 4 | x | x | x | x | x | x | x |
| 8 |  | Peer Review | x | x | x | x | x |  |  |
| 9 | 4 | Project presentation & status | x | x | x | x | x |  | x |
| 10 |  | Peer Review | x | x | x | x | x |  |  |
| 11 |  | Work on Milestone 5 | x | x | x | x | x |  | x |
| 12 | 5 | Course presentation | x | x | x | x |  |  |  |
| 12 | 5 | Course final paper | x | x | x | x | x | x | x |
| 12 |  | Peer Review | x | x | x | x |  |  |  |

**Final Notes:**

Due to the grueling weekend work schedule, I allocate most of my free time for coursework Tuesday through Saturday. Peer reviews are prioritized early in the week to maximize their benefits.

References

Hua, Andrew. (2023) *1.3\_Project\_Milestone\_1\_Sample.* [Class Handout]. WebCampus.

[https://teams.microsoft.com/l/channel/19%3a6cca36c17b854bc28c4e474b6eb3bcba%](https://teams.microsoft.com/l/channel/19%3a6cca36c17b854bc28c4e474b6eb3bcba%25)40thread.tacv2/DSC%2520630%2520T301%25202243%2520Winter%25202023%2520(Hua)?groupId=1246da72-5ed2-4b5d-bed4-fdfc13d838a6&tenantId=26feded2-a083-4777-8052-06ad5ef53556