Knowledge Streams
Assignment 01

PANDAS

Objective: To get the students ready for their UPCOMING PANDAS MINI PROJECT

A Note to Students: The **PANDAS** Mini Project is going to be of Advance category as it would/could be added in your portfolios as well. This assignment would help you to navigate the project more easily as it covers the basic concepts of Pandas. I strongly suggest that you use **PANDAS** documentation as a helping material for this. Any other AI or Google is your worst enemy in the long run! **BEST OF LUCK.**

Rehman Sadaqat

- **Assignment Title:** PANDAS ASSIGNMENT 01
- **Due Date:** October 28, 2024 - 23:59 (PST)
- **Submission Method:** GCR and LMS
- **Weightage:** 10% of your overall grade
- **Instructions:** Next Page for detailed Instructions
- **Resources:** Pandas Documentation

INSTRUCTIONS

Attempt Guidelines:
1. Make sure to write with clean and clear logic in each cell block.
2. Read the question very carefully. Even if your output is correct but it does not answer the question, points will be deducted.
3. The workbook is divided into 5 sections, each corresponding to an important concept of PANDAS. If you are weak in one part, make sure to go through your slides and/or Youtube videos to understand the concept before moving on to that section.
4. Points relative to each section are discussed on the next page.
5. You do not need any dataset files with this, there are links given in it.
6. The assignment holds significant weightage in your overall grade.
7. If you have any questions, feel free to connect with your peers. The instructors will only go through the file once in-class since instructors won't be allowed to help you build up logic in this assignment.
8. Pandas Documentation link is given ahead for you to review.

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https://pandas.pydata.org/docs

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Submission Guidelines:
1. Only 1 file is expected to be uploaded on assignment submissions.
2. Late submissions under no excuse will be entertained. Only the death of immediate family members (Mother, Father, Siblings, Spouse, Children) will be accommodated for extension.
3. If you are having any personal health issues, a prescription and medical proof of your medications will be needed for any sort of extension.
4. Any and all sorts of extensions should be requested only through email 1 day before the Submission deadline.

All questions are self-explanatory. The instructors will only help you with the question understanding, neither the logic nor the expected output.

GRADING SCHEME

Section 1: Get to know your data!

Steps	Points
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1
9	1
10	1
11	1
12	3
13	1
14	1
15	1
16	1

Section 2: Filter and Sort your data!

Steps	Points
17	2
18	1
19	1
20	1
Bonus	5

Section 3: Grouping!

Steps	Points
1	1
2	4
3	1
4	1
5	3

Section 4: Apply!

Steps	Points
1	1
2	2
3	2
4	1
5	4

Section 5: Merge/Join!

Steps	Points
1	1
2	3
3	2
4	1
5	3
6	2

IN ORDER TO UNDERSTAND THE ASSIGNMENT, PLEASE GO THROUGH THE ATTACHED
IPYNB FILE WITH THIS ASSIGNMENT.

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