



THE UNIVERSITY
OF BRITISH COLUMBIA

LEARNING ANALYTICS HACKATHON

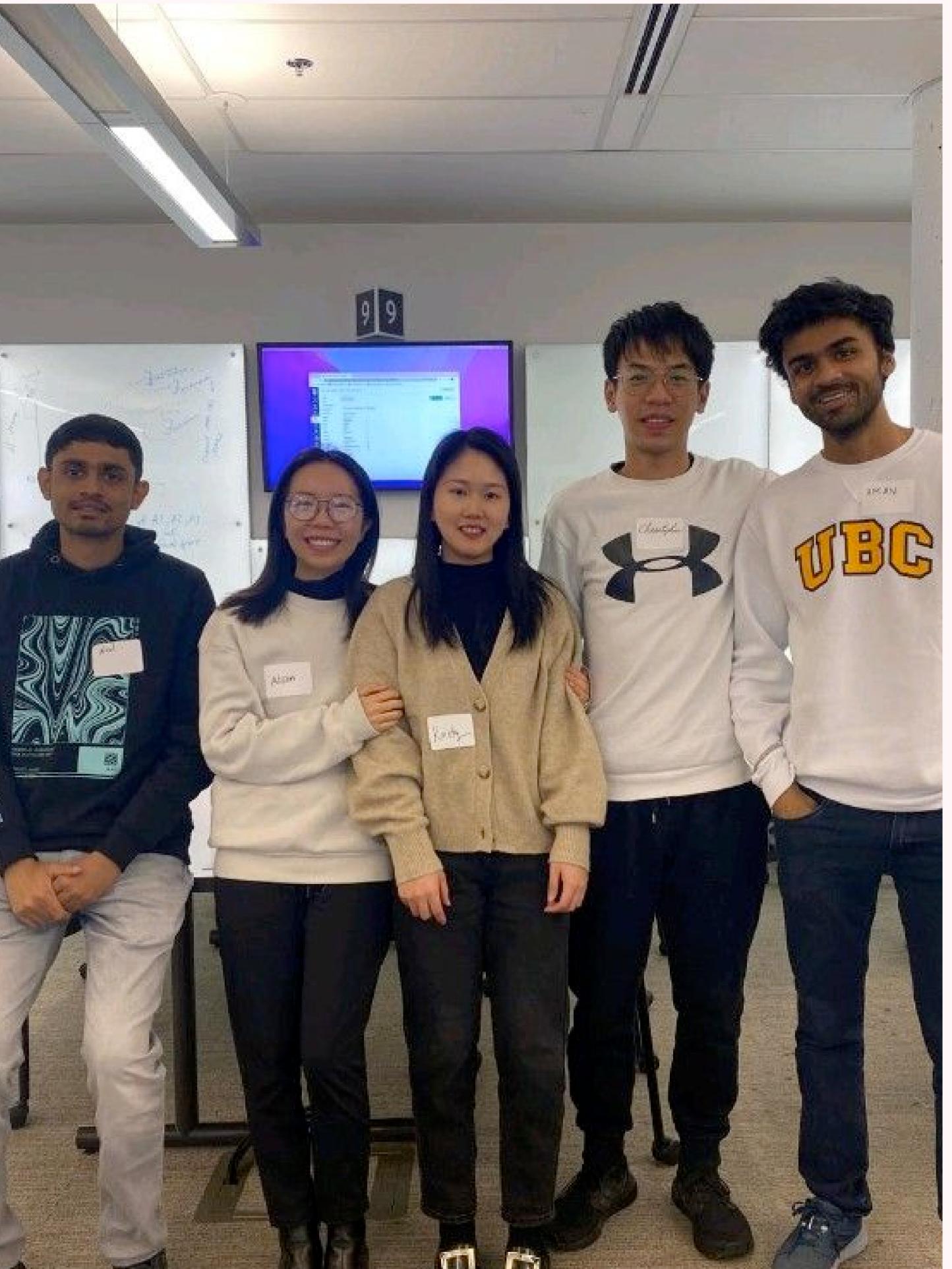
TEAM CAKAA



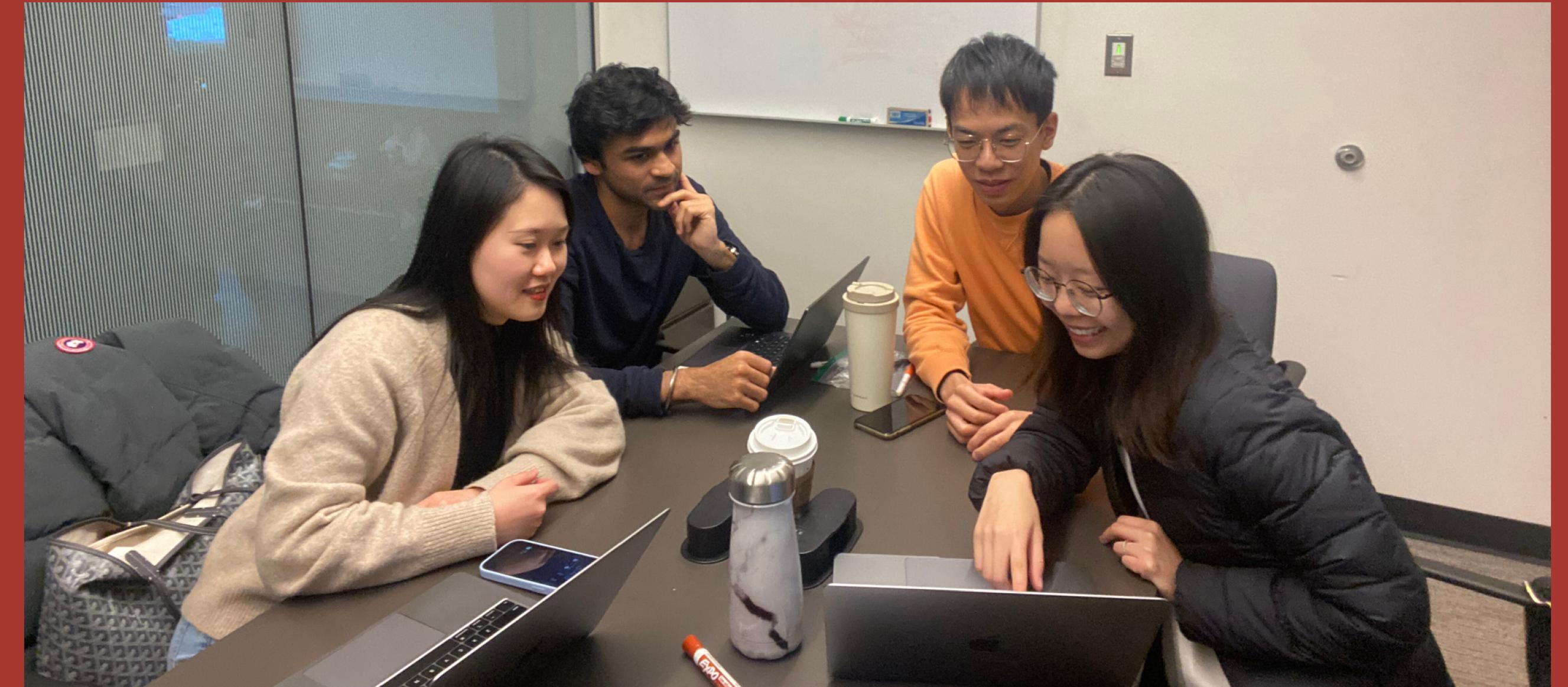
CANVAS

ABOUT US

- Master of business analytics students
- First time hackathon participants
- Come from various background
- **Christopher Lin** - Aesthetic medicine DA
- **Alison Liu** - Nutrition R&D
- **Kristy Yu** - Operation BA
- **Atul Singh** - Fintech BA
- **Aman Sharma** - Tech BI



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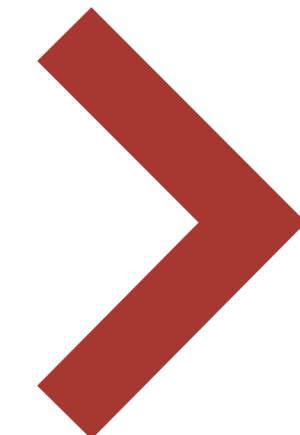
OUR APPROACH

1. Instructor's need

- *make improvement for future classes*

2. Canvas's limitation

- *24 - 40 hrs data delay*
- *access to only up to 27 days data in Canvas*



**Real-time,
interactive,
comprehensive
Dashboard**

WHAT WE BUILT

Python Script

To automate the process of manipulating Canvas api data to tableau-usuable format



Dashboard

To showcase key metrics in the interactive dashboard with user-friendly layout



Python Script

ORIGINAL DATA

*9 datasets will be generated by
the Canvas API*

DATA AFTER MANIPULATION

*The python script will group
the data into three levels*

- *Discussion*
- *Learner*
- *Page*



assignments.csv
.CSV



discussion_topics
.CSV



discussions.csv
.CSV



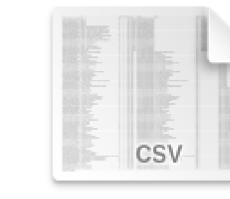
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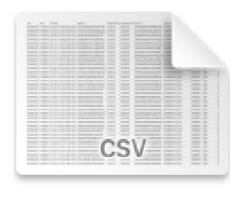
files.csv



gradebook.csv
.CSV



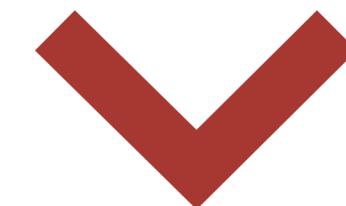
module_items.csv



navigation_events
.CSV



pages.csv
.CSV



discussion_level.c
SV



learner_level_dat
a.csv

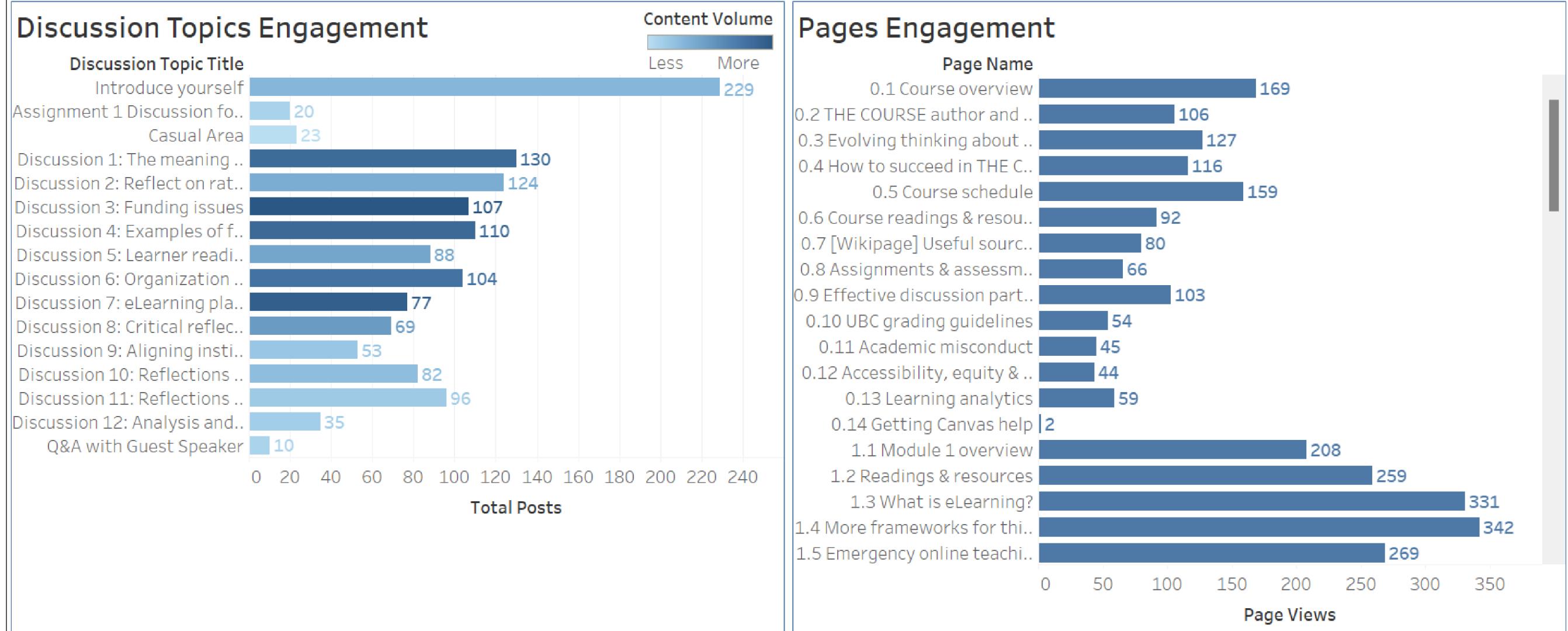


wikiPage_level.cs
V

TABLEAU DASHBOARD

- DISCUSSION
- PAGE

Course Performance Analysis	Summary									
	Students	Discussion Posts	Avg. Current Score	Participation Score	Assignment 1	Assignment 2	Assignment 3 (option A)	Assignment 3 (option B)	Assignment 3 (option C)	Assignment 3 (option D)
	34	1,296	79	78	86	83	77	82	78	95

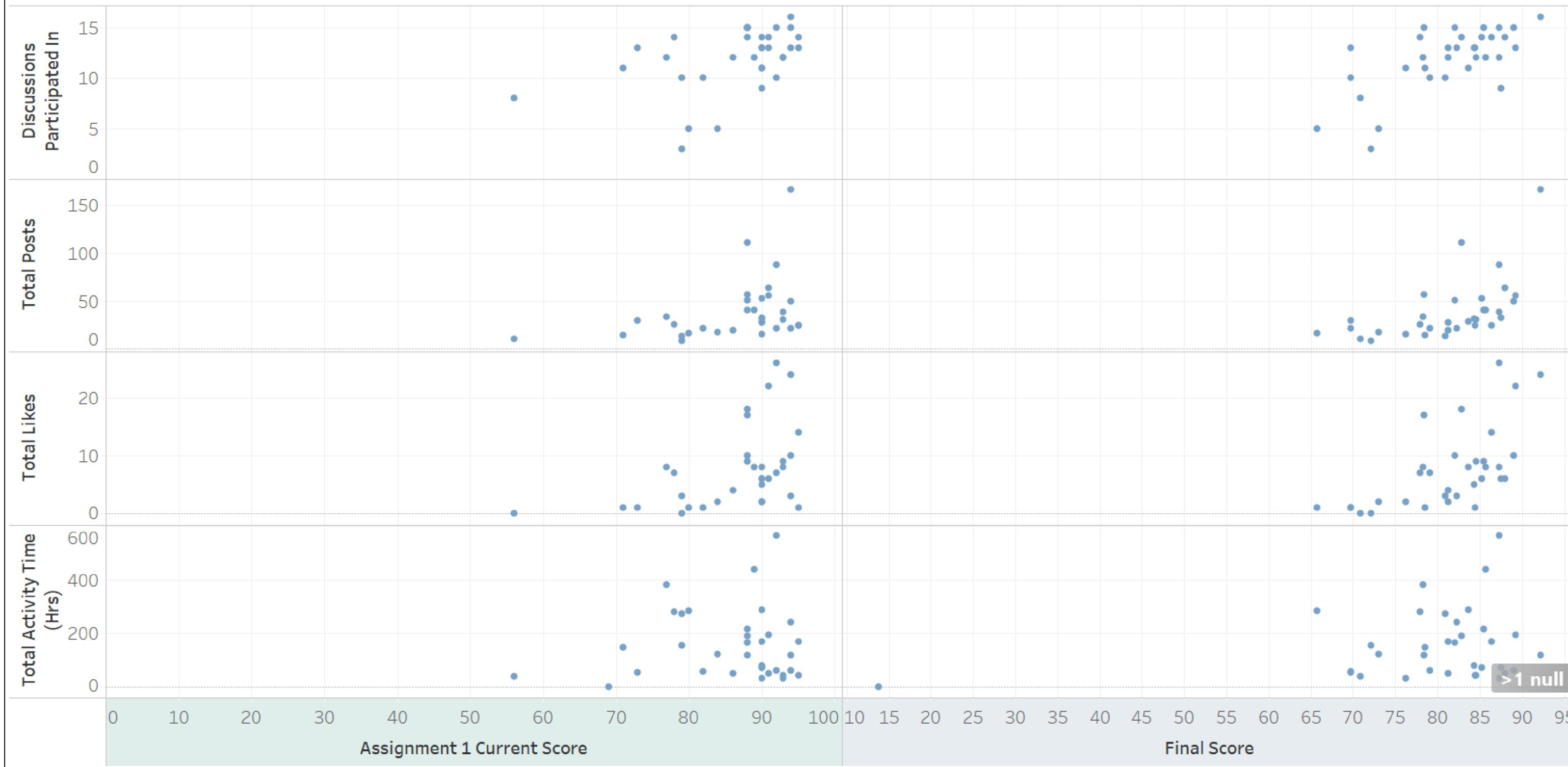


Course Performance Analysis

Summary

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Course Engagement vs Scores



RD

