



# Learning Analytics Hackathon (Fall 2022)

Team X



THE UNIVERSITY  
OF BRITISH COLUMBIA

# Team X



Caroline Tang



Jonah Hamilton

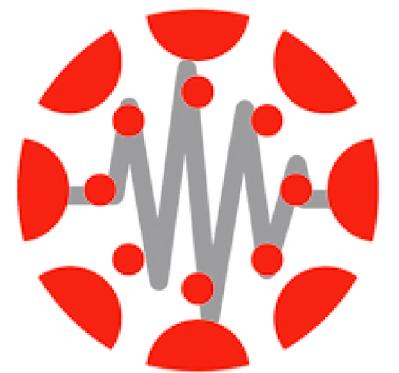


Ty Andrews

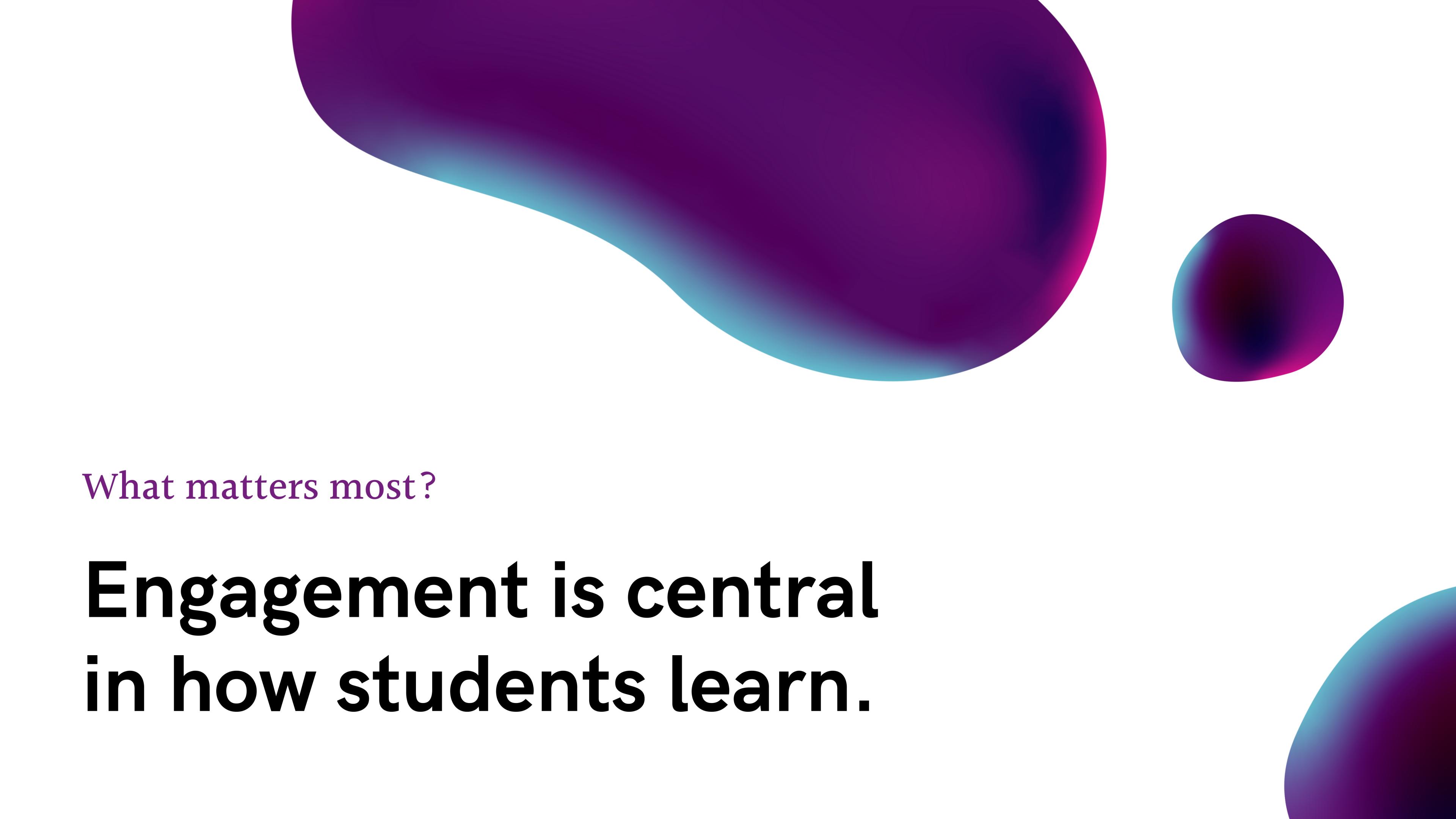


Reza Nabi

But you can't expect  
things to stay the  
same:  
**Introducing**  
**Canvas Pulse**

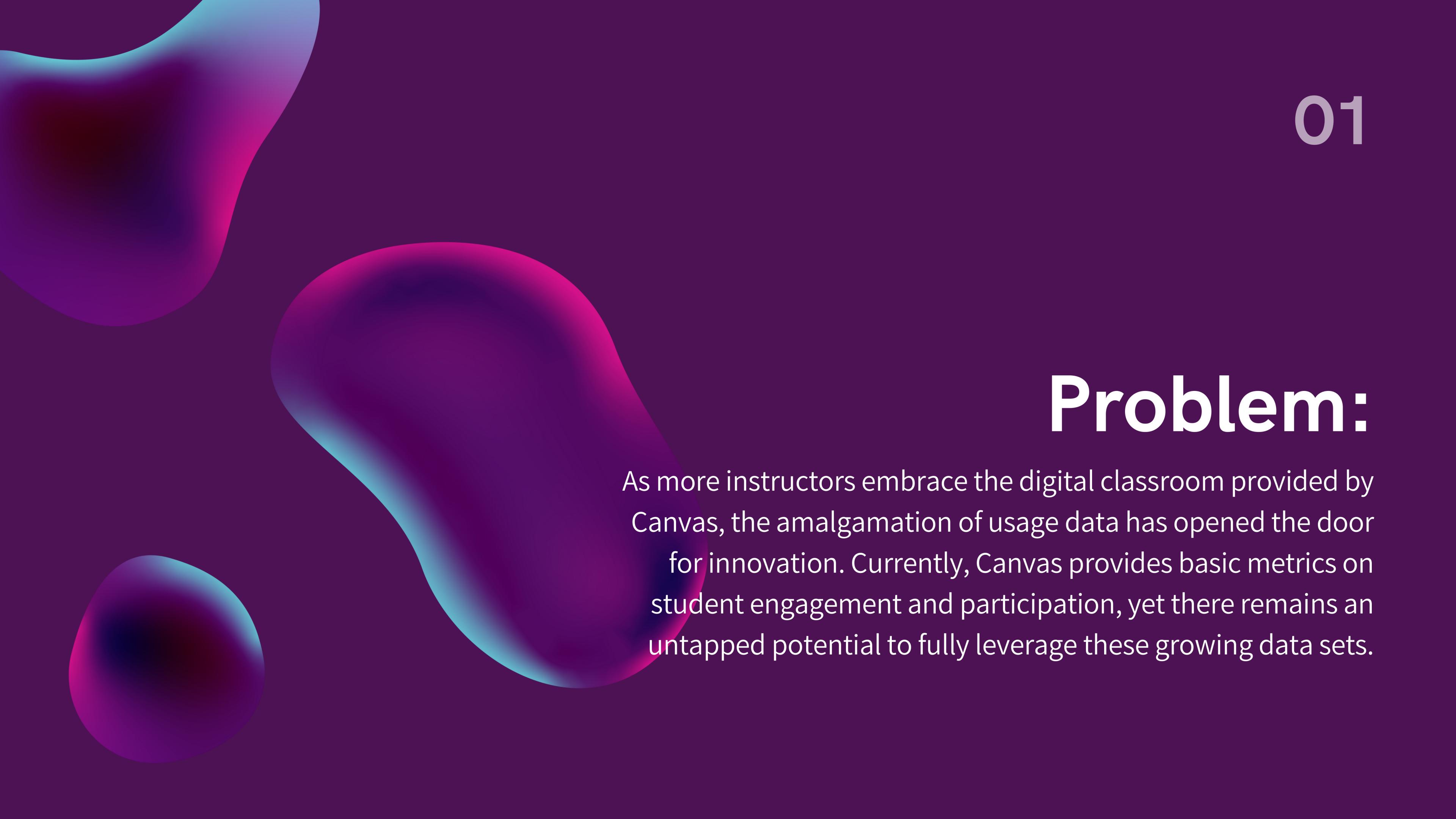


canvas<sup>PULSE</sup>  
BY INSTRUCTURE



What matters most?

**Engagement is central  
in how students learn.**

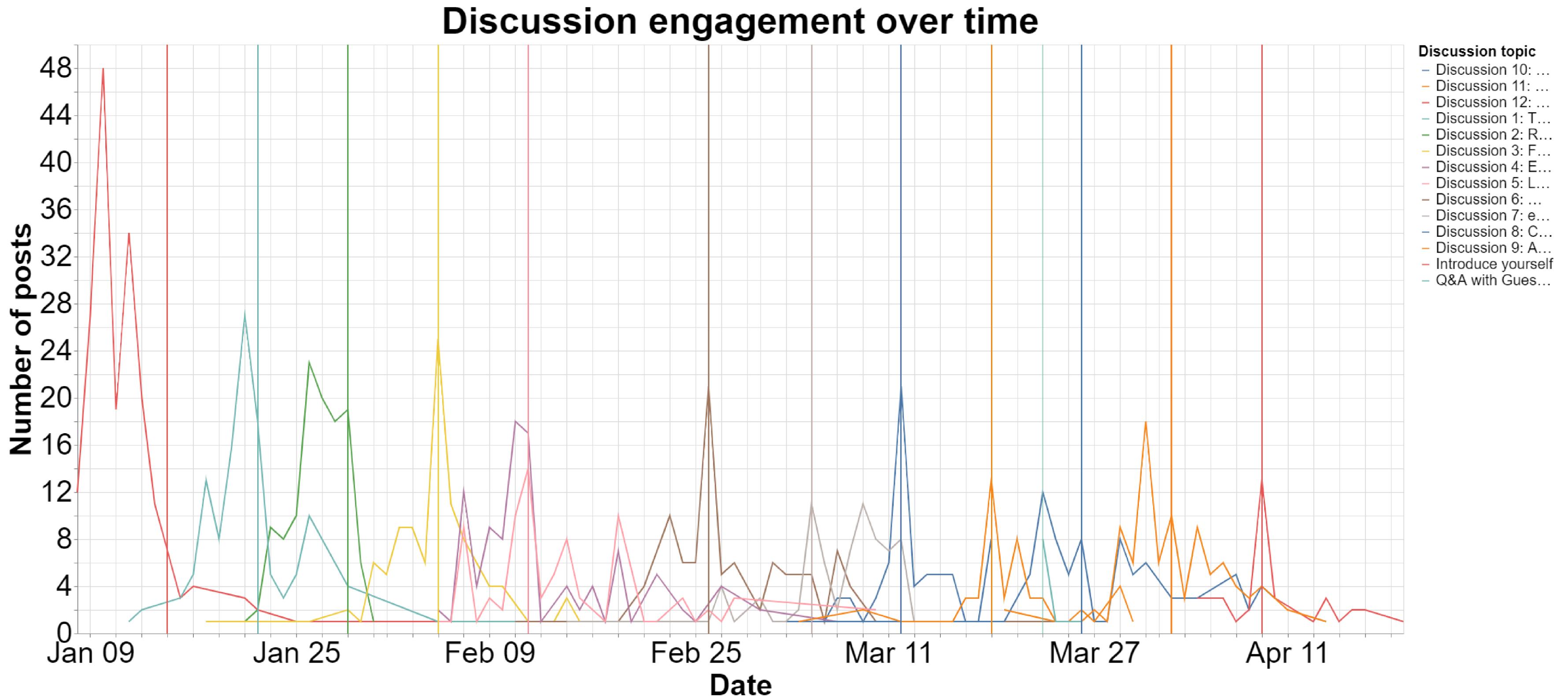


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## Problem:

As more instructors embrace the digital classroom provided by Canvas, the amalgamation of usage data has opened the door for innovation. Currently, Canvas provides basic metrics on student engagement and participation, yet there remains an untapped potential to fully leverage these growing data sets.

# When and Where do students engage with the course material?





It's all about measuring  
the students' engagement

# Success Measures

## Discussion Engagement

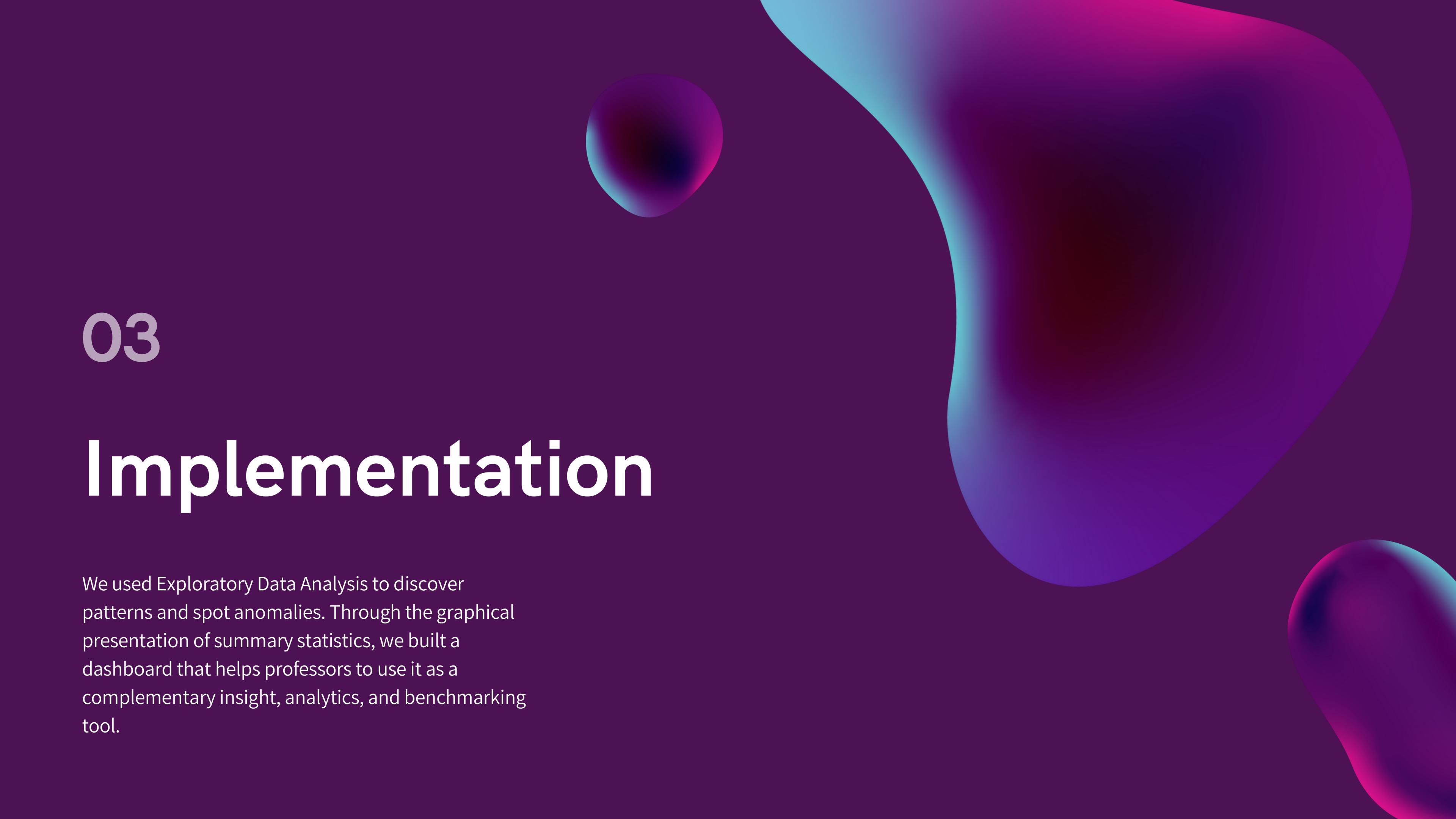
Students' time spent on and contribution to each discussion are vital elements for grading their "participation and engagement."

## Assignment Engagement

Challenging and COOL assignments are usually making a higher engagement rate with the student.

## Course Material Engagement

Course overview and reading materials are the core content of the course, and improving the student engagement rate with these two types of materials is a priority for instructors.



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# Implementation

We used Exploratory Data Analysis to discover patterns and spot anomalies. Through the graphical presentation of summary statistics, we built a dashboard that helps professors to use it as a complementary insight, analytics, and benchmarking tool.

# Demo

