

CASE STUDY PRESENTATION

PREPARED BY: DANIYAL ARIF

Data Investigation



Table 1: Group MembersContains group join & leave events since group creation by teacher



Table 2: Session LogContains details about live sessions
of attendances

Table 1: Group Members (Data Variables)

GROUP MEMBERS

student_id

group_id

joining date

- Observations: 14,798
- Unique Students by Student ID: 14,365
- Observations take place when a student joins or leaves a group
- Thus, there can be Student ID recurring. For instance, if a students joins 3 groups then that student id should be captured as three separate observations
- I merged student_id if with group_id to see if certain student has joined and left a certain group. There was no such observation
- Thus, frequency of student_id recurring shows when student joined various group
- Student ID (Recurrence) Frequency

• This means that there were **344** students that joined two groups

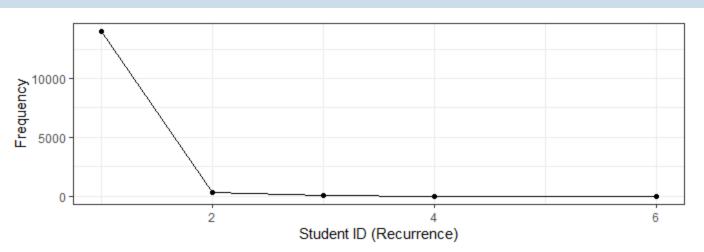


Table 2: Session Log (Data Variables)

SESSION LOG

student id

session id

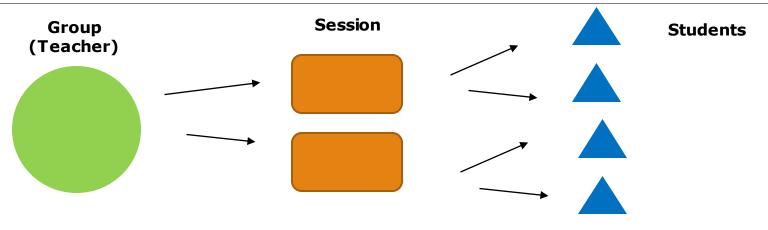
group_id

student_arrival_time

student_exit_time

session_arrival_time

session_exit_time

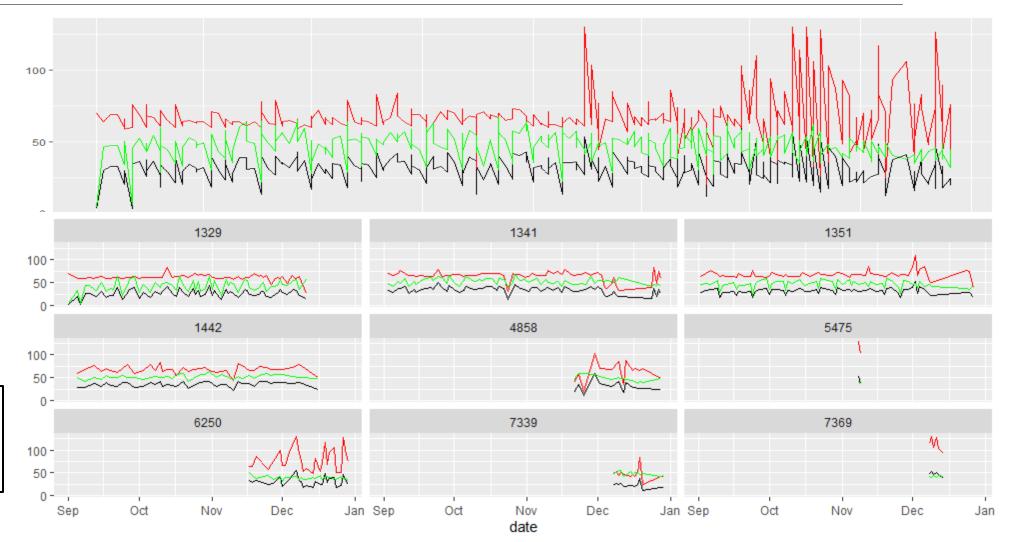


- Observations: **20,120**
- Observations take place at student's live session attendance
- **11,036** unique student_id in this file meaning **14,365 11,036** = **3,329** students joined a group but did not attend a live session
- **9** unique group ID meaning there are nine different groups
- Assuming that each teacher has one group and each group has one teacher, there has to be 9 teachers
- There were **341** unique live session
- Three new variables were created. (1) Student Time Spent = Student Exit Time Student Arrival Time
 (2) Session Time = Session Exit Time Session Arrival Time (3) Student Time Per Session = Student Time
 Spent / Session Time * 100 (Conveys the percentage of time student attended session)

Mean Session Attendance Trend (Overall & By Group)

- Session attendance has remained about 50% approximately but in Decthere was a declining trend of student session attendance.
- There were continuous live session throughout the time for group 1341 while for group 5475 there were sessions just for 2 days in November, 6 days for group 7369 in December

- mean_session_time (min)
- mean_student_session_attended (%)
- mean_student_session_time (min)



I. What kind of use cases students have on the platform, based on this data?

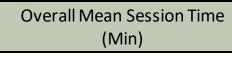
Noon's tutoring

Overall Mean Time Spent By Student (Min)

33.4

mean stud tps

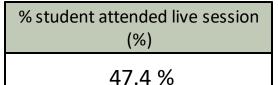
Month = 9

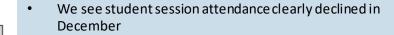


71.2

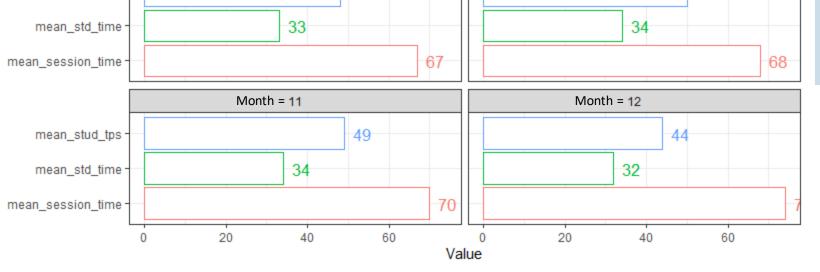
Month = 10

50





- Mean_Session_Time = Average Time of Session (min)
- Mean_Std_Time = Average Time of Session Attendance by Student (min)
- Mean_Stud_TPS = % of session attended by the student(%)
- Mean_Stud_TPS = Mean_Std_Time / Mean_Session_Time



48

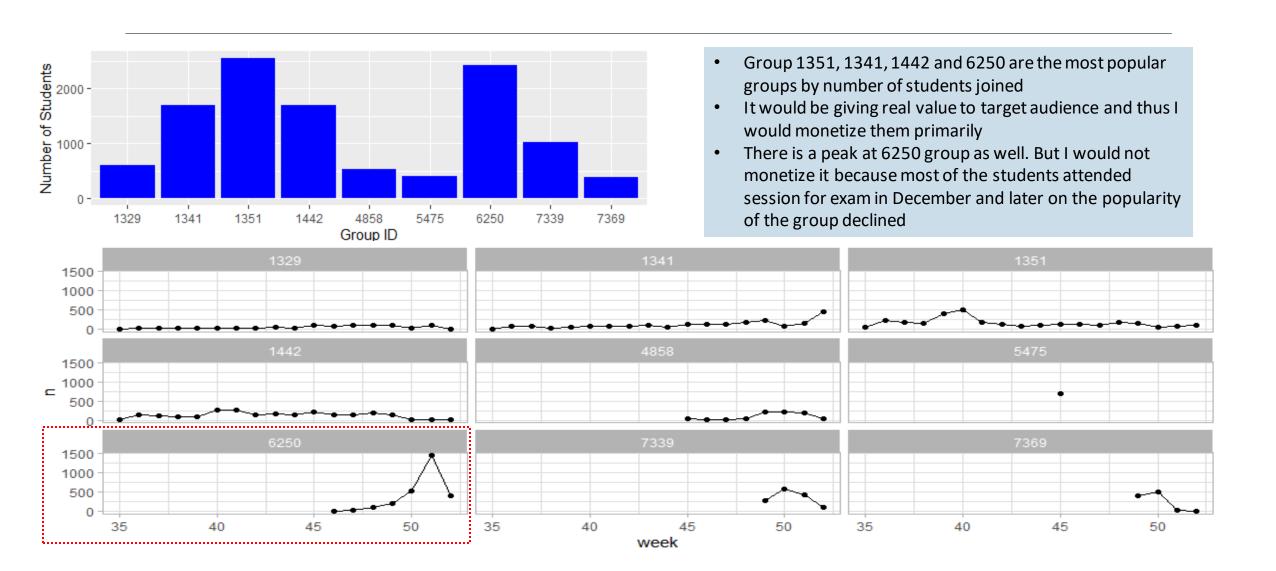
- a mean_session_time
- a mean_std_time
- a mean_stud_tps

II. What teachers should we promote at the platform? (assume that each teacher has one group and each group has one teacher)

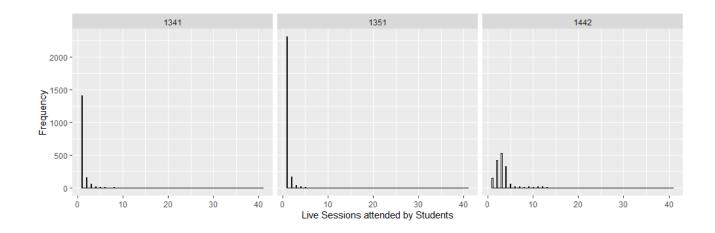
- From graph, it can be seen that teacher from group 1329, 1341, 1442 and 1351 have conducted sessions throughout the time period so they should be promoted for more students to get to know of the sessions and join
- It makes more sense to promote them as the content they produce is more regular



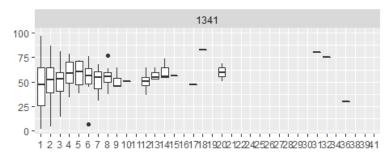
III. What groups would you monetize and why?

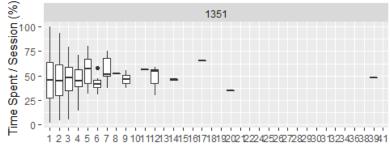


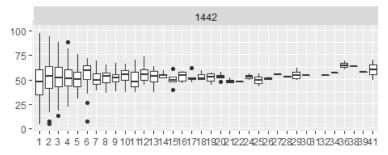
IV. What students would you target for paid groups?



- Students attended 1 41 live sessions
- Histogram shows that for group 1341, 1351 majority of the students took one live sessions while for group 1442 it seems majority of students took 3 live sessions
- The median % of session attended by the student was around 50 %
- The trend showed that students who took more than one session from a group attended the session longer (median) which makes sense because only the motivated students came to see another session
- I would target students in these groups based on interval of time that students viewed the session instead of the number of sessions because very few go for more sessions from a group







Live Sessions attended by Students

V. If we would analyze retention, what groups would you learn from the most? What teachers would you interview and study carefully?

