

Table 1: Feature description

Feature	Description
DelayLecture	The average delay in viewing video lectures after they are released to students.
RegPeakTimeDayHour	The extent to which students' activities are centered around a particular hour of the day.
RegPeriodicityDayHour	The extent to which the hourly pattern of user's activities repeats over days.
NumberOfSessions	The number of unique online sessions the student has participated in.
RatioClicksWeekendDay	The ratio between the number of clicks in the weekend and the weekdays
AvgTimeSessions	The average of the student's time per session.
TotalTimeSessions	The sum of the student's time in sessions.
StdTimeSessions	The standard deviation of student's time in sessions.
StdTimeBetweenSessions	The standard deviation of the time between sessions of each user.
TotalClicks	The number of clicks that a student has made overall.
TotalClicksProblem	The number of clicks that a student has made on problems this week.
TotalClicksVideo	The number of clicks that a student has made on videos this week.
TotalClicksWeekday	The number of clicks that a student has made on the weekdays.
TotalClicksWeekend	The number of clicks that a student has made on the weekends.
TotalTimeProblem	The total (cumulative) time that a student has spent on problem events.
TotalTimeVideo	The total (cumulative) time that a student has spent on video events.
TotalClicksVideoLoad	The number of times a student loaded a video.
TotalClicksVideo	The number of times a student clicked on a video (load, pause, play, forward).
AvgWatchedWeeklyProp	The ratio of videos watched over the number of videos available.
StdWatchedWeeklyProp	The standard deviation of videos watched over the number of videos available.

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AvgReplayedWeeklyProp	The ratio of videos replayed over the number of videos available.
StdReplayedWeeklyProp	The standard deviation of videos replayed over the number of videos available.
AvgInterruptedWeeklyProp	The ratio of videos interrupted over the number of videos available.
StdInterruptedWeeklyProp	The standard deviation of videos interrupted over the number of videos available.
FrequencyEventVideo	The frequency between every Video action and the following action.
FrequencyEventLoad	The frequency between every Video.Load action and the following action.
FrequencyEventPlay	The frequency between every Video.Play action and the following action.
FrequencyEventPause	The frequency between every Video.Pause action and the following action.
FrequencyEventStop	The frequency between every Video.Stop action and the following action.
FrequencyEventSeekBackward	The frequency between every Video.SeekBackward action and the following action.
FrequencyEventSeekForward	The frequency between every Video.SeekForward action and the following action.
FrequencyEventSpeedChange	The frequency between every Video.SpeedChange action and the following action.
AvgSeekLength	The student’s average seek length (seconds).
StdSeekLength	The student’s standard deviation for seek length (seconds).
AvgPauseDuration	The student’s average pause duration (seconds).
StdPauseDuration	The student’s standard deviation for pause duration (seconds).
AvgTimeSpeedingUp	The student’s average time using Video.SeekForward actions (seconds).
StdTimeSpeedingUp	The student’s standard deviation of time using Video.SeekForward actions (seconds).
CompetencyStrength	The extent to which a student passes a quiz getting the maximum grade with few attempts.

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CompetencyAlignment	The number of problems this week that the student
CompetencyAnticipation	The extent to which the student approaches a quiz provided in subsequent weeks.
ContentAlignment	The number of videos this week that have been watched by the student.
ContentAnticipation	The number of videos covered by the student from those that are in subsequent weeks.
StudentSpeed	The average time passed between two consecutive attempts for the same quiz.
StudentShape	The extent to which the student receives the maximum quiz grade on the first attempt.