

Student Live Behaviour Monitoring In Online Classes Using Machine Learning

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Abstract:

Numerous schools, universities, and educational institutions have had health issues like epidemics and other calamities. Institutions are compelled to stop using their spaces for teaching, therefore a lot of them have changed to virtual learning. These academic institutions have all started to select digital tools like Google Meet, to bring classes and educate students, Microsoft Team and Zoom are used. 24 percent of people were not informed or their Academic achievement did not increase. This project's primary goal is to establish a source of income where Both teachers and teachers can keep an eye on their pupils' actions and gather essential information about the class.

This article provides automated analytics. Technology that keeps track of students attending lectures online at a distance and gives the instructor feedback. The recorded and examined classroom footage to determine the student trends that a teacher might miss during class period. Five types of emotional actions are identified in students.

Such as: Google Meet, Microsoft Team, and Zoom to bring classes and teach students. 24% were unaware or for some reason their academic performance was not improved. The main objective of this project is to create a livelihood where both teachers, teachers can monitor their student's behaviour can obtain relevant data about the class.

Keywords- *Linear Regression, Machine Learning.*

I. INTRODUCTION

Effective feedback is necessary for effective learning in order to develop human abilities. Analysis of earlier work is carried out in various disciplines, including sports, dancing, and the arts, to enhance their and do better in the future. Additionally applicable in the size of education, for teachers as well as student development can be improved with good instruction. in a lecture hall Teachers find it challenging to continue continuous instruction in this interaction with every student over the course of the lesson. In the When a teacher is present, many students exhibit signs of inattention. Behaviour that goes unnoticed. particularly in online courses, the professors can only see a small portion of the children on the webcam finalizing manually the recorded pupil attention Classroom video production is only manageable when There are a set number of pupils and the lecture. Also, it need help from skilled scholars and laborious human effort for the evaluation. Additionally, these insights need a lot of work. Pricey and frequently having a short lifespan and efficiency.

Our objective was to provide an automated feedback mechanism assessing the overt student behaviour is a monitoring technique for teacher's behaviours. Additionally, it enables the pupils to monitor their focus. Levels for next advancements. The method assists in I Classifying dividing student actions into five emotional states (ii) Automating the determining student engagement via transitions from each student's Optical flow, and (iii)present the analysis allow the teacher to properly plan.

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online courses, the professors can only see a small portion of the children on the webcam find it incredibly challenging to keep an eye on the person students' level of attention

II. RELATED WORK

1) Behaviour Represents Achievement: Academic Performance Analytics of Engineering Students via Campus Data in year 2020-

Behaviour analysis is an important research direction in the field of social computing. Analysis, understanding and intervention of students' daily behaviour patterns may provide a new to improve academic performance in addition to the classroom. This study, thus, uses campus behaviour data to study the performance of undergraduate students' morning activities in dorm was positively correlated with GPA while afternoon and night activities were negatively correlated with GPA.

Keywords: Academic performance; behaviour analysis; daily schedule; library visit; meal habit

Advantages: The relationship between students' basic information and behavioural preferences.

Disadvantage: Overall predict the behaviour of student in academics and daily schedule.

2) Design an Information System for Student Track Prediction in year 2019-

The peculiarity of this study is the use of data on the choice of a student in the formation of his individual trajectory. In paper the data model of student and usecases of the information system for student track prediction were considered. Personal data of 500 bachelors from Ural Federal University formed a feature space, including data on education, data on student track formation behaviour and data on the social context. A model for predicting the trajectory of a student was developed. The proposed system can be accepted to the processing of data to create a competence portrait of student.

Keywords – classification and regressions trees, SQL, prediction, R, student track.

Advantages: the system can be used to predict probability of a student being expelled from a university

Disadvantage: specific recommendations for the student (or his curator) on his learning activities, or on forming an individual student learning path.

3)A Study on Student Behaviour Intention of Knowledge Sharing in Higher Education in year 2017-

This research discusses main issue which involve several factors such as motivated students' attitude towards knowledge sharing used learning management systems (LMS). Adapted from last research, this research emphasizes to analyse students intention to do knowledge sharing by various factors, which are: Commitment, concern, happiness in Helping Others, Reputation, and Rewards of Organization. Research method used in this research is quantitative method by data collection using questionnaire distribution to several students from variance majors in one private university in Jakarta.

Keywords: Knowledge sharing, knowledge sharing behaviour, knowledge sharing intention, online knowledge sharing.

Advantages: The happiness and enjoyment of sharing knowledge to other peoples.

Disadvantage: To see the attitude of students for sharing the knowledge to people.

III. EXISTING SYSTEM/OPEN ISSUES

Because of the epidemic, teaching in schools is not possible when different video consultation methods were used to educate students. Education is great for students, because it has the power and ability to change human kind and these students will be the future of the country. Thus, the ITC has helped to new educational reforms such as

introducing different town-sustaining agents in student-teacher interactions. The main motive of study was to find out the influence on students about learning using the visual tools mentioned above.

In today's situation is like, with the improvement of a portable devices, such as a smart phones and pads, the E-Learning system has been instantly evolved virtually (online) and improved learning. There are many students who take these study and lectures lightly and think they cannot be punished, because of their behaviour and thus they get less marks. Due to this centre parents face problems in keeping students or their children in control.

IV. CONCLUSIONS

We have concluded that our student live behaviour detecting student live behaviour and their actions will be useful for student as well as the teacher. This study aims to create a system that automatically supports teachers and related education. This study aims to create a system that automatically supports teachers and skills related to monitoring student behaviour. The system will seen as an important factor in decision-making processes. We have completed the collection of data that can obtained and distributes to decision maker directly. A whole system that supports student behaviour recording, mathematical continuity, and demonstration of the completed structure of the entire system that supports student behaviour recording, data continuity.

In future, we would like to improve this idea and use the model more wisely. This will develop the effect of the model and students who are working hard will have other opportunity to work and prepare more easily for future exams. So, extra classes or visits to the teacher's was not successful; therefore, we should plan to add an extra module to the proposed construction. The recommendation module will automatically send personalize recommendation to reader depending on their current status. We aim to use the model in other

subjects and expand the vision across the entire set of courses at the institution.

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