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AI and ML Powered Web Application for Parent Teacher Interaction

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ABSTRACT: This research was designed for discovering the effect of parental involvement as well as teachers involvement upon the students academic achievement at the school level It helps to increased parental involvement in education through parent-teacher interactions ean be a cost-ctfective tool to enhance student achievement.

The research explored the impact of two characteristics of parental involvement i.e. parental communication, and their emotional support, and classroom security, and teachers motivation on students academic achievement.During the study we noted that parents-teachings were not met in most of the schools due to which there is a gap between them and it is affecting the academic performance of the students. We suggest that parents-teachers must be made an integral part of academic activity in the schools. The interaction between the parents and teachers is necessary for good performance of the students in the schools. The main objective of this research paper is study the effects of parents-teachers' interaction on the performance of the students.This technology is used to communicate with parents about their child's literacy growth while the child was enrolled in a university -based tutoring program.A Iso we are focusing on to achieve FLN (Foundation And Literacy)goals. Parents and teachers interact because of their shared responsibility for the wel fare of the children in their care. Research indicates that teachers value parental involvement in their students' education. There is also evidence that parents place a great deal of trust in their children's teachers.

KEYWORDS: Energy efficient algorithm; Manets; total transmission energy; maximum number of hops; network lifetime

I. INTRODUCTION

Educational achievement and positive attitude of teachers has been linked to parents involvement. For example, active participation in home can result in better educational outcomes. Students are motivated with the help of parental involvement in the schools. Due to which they are keen in their studies. This acts as a bridge between the parents and teachers. The parents-teachers" interaction in the school not only increases the student's performance in the class but also plays a key role in the development of the personality of the student as well. A large number of studies showed that parental involvement in the school issues and in their children studies contribute a lot in the success of the students in many ways. There are many factors which can affect the performance of the students in the class. Family involvement Students personal profile Teachers Attitude

II. MOTIVATION

Building relationships with students and parents is vital in education, and it is important that teacherskeep parents informed of successes as well as arcas for improvement. Ideally, communication between parents and teachers should go both ways, and the communication process should be efficient. smooth and durable. A good way to achicve this is by keeping a communication log.

2.1 Purpose

It would be good if the parent knows about the Academic background of the student academic history, information about what the student does other than studies, his in inclination towards ats sports. All this can be best understood if

the teacher has a friendly relationship with the student. Because it would not be correct to expect two students with different environment to perform equally. Equality does not imply to same marks in only academics.

3.2 Scope

Parent-teacher communication is more than just a process of helping improve your student's orchild's grade. When a child's parents and teachers communicate better, it leads in better nurturing of their social development. That's because educating a child is not the school's responsibility alone. There needs to be ample communication between the home and the school to foster a safe learning environment for the children.

3.3 Objective

Envolve parent in education system for better future of their child. To study the effects of parents' teachers' interaction on the performance of the students. To track students envolvement in various activitics.

III.PROBLEM DEFINITION

Currently in schools teachers perfornm manual work to prepare and track students learning's outcome through report cards. This is the standard procedure done manually throughout the country often it is observed that students are also good in co-curricular activities and being good in academics is not the only way ahcad. In current situation it is not possible for a teacher to pay attention to every studcnt and find out the best in a child Hence there is a need to develop solutions to track all activities of a student including the academic progress in real-time innovation in this domain will be appreciated to develop systems which automatically reads the students progress and generates feedback also is a good way to proceed.

3.1 Software Requirement:
Languages Used:
HTML
CSS
JavaScript
Python
VS code
Jupyter lab
. D-Jango Framework

3.2 Hardware Requirement
Any kind of OS with:
Memory: 2 GB minimum, 4 GB recommended
Screen Resolution: 1280 x 1024 or larger
Application window size: 1024 x 680 or larger

3.3 Algorithms used:
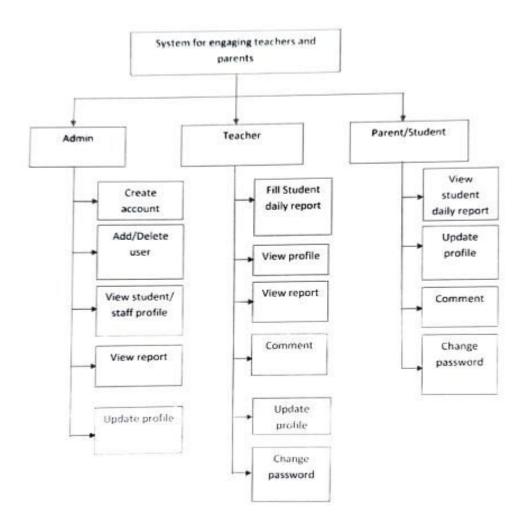Natural language processing, Decision tree, Support Vector Machine.

IV. SYSTEM BLOCK DIAGRAM

V. DETAILS OF TECHNOLOGY

- **WEB TECHNOLOGY**

For user interface Python D-Jango frame work is used

- **ARTIFICIAL INTELLIGENCE:**

For making chatbot chatbot Natural language processing used

- **MACHINE LEARNING**

To calculate the performance of student performance metrics

VI. DISCUSSION AND CONCLUSION

Through our case study research, I found that the essence of a strong teacher and student relationship revolves around how it affects the teaching and the learning going on in a classroom. Each contextual category that was created as a result of this case study includes specific components of the teacher and student relationship that affect the classroom learning environment in a meaningful way as evidenced by student work samples and student responses to teacher interaction.

This study afforded me the opportunity to gain in-depth knowledge of teacher-student interaction and teacher thinking that has a positive effect on the learning environment.

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