AN ENHANCED STUDENT PERFORMANCE EVOLUTION MODEL FOR CAREER IMPROVEMENT BY USING PREDICTION BASED MACHINE LEARNING

B. Suresh

Research Scholar, Department of computer science, vels Institute of Science, Technology and Advanced Studies, Chennai.

R. Renuga Devi

Assistant Professor, Department of computer science, vels Institute of Science, Technology and Advanced Studies, Chennai.

Abstract

The successes of teacher's movement basically depend on the student's stimulus in favor of this kind of action. If the student has strong, clear and deep intentions, the activity will go more efficiently and give better results, which means he wants to be proactive, overcome unavoidable difficulties and constantly move for their vision. The knowledge process will be further flourishing if students focus the positive learning approach. It has a special attention and require for a successive process. Most of the students are majorly focusing on their responsibilities. An important position in stimulus patterns was the personal connection between instructor and students. Utilizing the power of interaction on the student leads the thoughts towards the education development. In this paper, an enhanced student performance evolution model was discussed. This model evaluates the career improvement of the students. Here the prediction based machine learning was proposed to enhance the performance. The performance parameters are compared with the existing algorithms and these merits are evaluated. The proposed model getting higher results while compared with others.

Keywords: student, motivation, deep intentions, proactive, learning process, cognitive interest, positive aims, career improvement, machine learning

1. Introduction

One way to create a successful environment is not one choice for students, but a small number of building problems will increase [1-2]. Teachers who care about students in general not only guide them but also guide their career. As far as students are concerned they have only a limited amount of interest in education. Finding it right is one of the teacher's primary tasks. Not all students can be taught the same way [3]. Find out the size of the student body and seek to improve their career as appropriate. Acting in this way can attract their attention [4]. It will also be a great choice for students when they are evaluating the talents within the mindset and doing the appropriate career development work. It can bring their full level of involvement and the choices that are available to them [5-7]. Parents and teachers need to take a little extra care to cultivate students' interest in education and inculcate ambition. [8]. Today's students are very smart. Their interest goes beyond schooling. Recent research suggests that some students may be less interested in education because the education system is not conducive to their interest or that a student-centered education system is not being followed [9-11]. Experts say the changing student needs a teaching method that is adapted to the state of mind [12]. Parents and teachers need to take a little extra care to cultivate students' interest in education and inculcate ambition. We need to understand why students are less interested in education and guide them accordingly [13-14]. Today's students are more interested in modern technologies. Their focus is drawn to things rich in technical knowledge and entertainment features [15].

It is imperative of the times that teachers evaluate themselves as they evaluate students. Are there flaws in the way you conduct the lesson so that students are not involved in your classes? The Teachers can record a video of the lesson and self-examine it [16]. Are you teaching fast, not giving enough explanation, and being too strict? Has compassion diminished? Do you give too much workload? What ways do you handle to make the difficult part easier to teach, and treat the best students, the average student, and the underprivileged equally? Do you focus on improving underprivileged students? Need to change other style, dress, manners? Introspecting yourself on all aspects such as is a necessary change to guide today's students [17-19]. Therefore, teachers can attract the attention of students only through the teaching method beyond the classroom. Teachers should therefore devote a few minutes to sharing ideas beyond the lessons [20].

2. Literature Review

The Students will focus on learning with greater interest as training classes and communication are adapted to the Internet. With the development of information technology today all information can be converted into web data and lessons and tutorials can be easily converted to computer-web technology [21]. It is ideal for students to pass on information and share ideas. No student will be confused if they upload information and homework for homework training on the Internet [22]. Be able to express their personal opinions

Copyrights @Kalahari Journals

International Journal of Mechanical Engineering 3946 Vol. 6 No. 3(December, 2021)

without embarrassment and facilitate internet communication so that each student can appreciate their talents and guide them by expressing their grievances personally [23]. This way the average student can avoid being embarrassed and shy away in the presence of others. Teachers need to realize that • creating a simple webpage for them is the easiest thing in today's technological development [24]. The Learning-related studies show that teachers 'classroom management skills have a positive impact on students' learning patterns. The classroom is made up of students who are as diverse as the best students and the average student who is challenging. Teachers need to pay their respects as they care about the well-being of all [25].

The Students need to realize that you are a unique teacher. Studies show that students make better progress in the subjects of those who crawl as teachers with innovation and simplicity. Many times the best teachers are those who realize that gentle guidance can make a difference for the better, rather than just teaching [26]. Teachers need to make changes in the way they practice, realizing that classes are not only about teaching, but also about developing character and making positive changes in students. Course descriptions need to be 'updated' for modern change [27]. If you have prepared your class for visual lessons you are a role model teacher.

3. Proposed Model

Although it is very obvious that the tasks of developing students 'individuality and teaching are on the same level and interconnected, methods for developing students' creative abilities Teaching is not an easy task. Students will not feel it easily. At the same time learning is not a trivial matter. They are in a situation where they have to study unwanted subjects and excess subjects. So it is imperative that students and teachers keep their stress under control. We need to cultivate an interest in learning and teaching by relaxing the mind through meditation, yoga, custom reading, savoring, and going out and entertaining. The Most effective machine learning evolution model (EMLM) are demonstrated as the follows shown in fig 1,



Fig 1: Effective machine learning evaluation model

Creative work: It reflects on a learning task with creative elements, for these activities, the student must utilize awareness, performance or solving techniques to facilitate they have not yet used in school., Puzzles, poetry writing, Copyrights @Kalahari Journals such as academic work has the greatest creative potential. Conducting these types of activities frequently, then the students think to lean more and teachers creates the different scope of the education.

- Reporting an issue or creating an issue situation: This technique of systematized learning methods are sharply discussed about the problem solving skills of the student. Its spirit mendacity in presenting the academic meaning of the lesson in an accessible, metaphorical and articulate form. Children, due to their age characteristics, are very curious, so any problem presented clearly and easily immediately "ignites". They are ready to see, discover and guess the mystery they encountered along the way and overcome any difficulty.
- Conversation (based on corporate): Education fosters subtlety and skills. As well as cultivating the virtues of life. Only by cultivating virtues can the purpose of life be attained by education. Education is life, life is education. The school is the main educational institution that carries out the learning and teaching activities. It is not enough to have only consistent students to carry these out satisfactorily. They have to be willing to learn.

The group of incentives can be divided into large subgroups shown in fig 2:

- *Methods of emotional stimulation:* There is a growing tendency today for students to drop out of their academic activities due to the inability of the education system to compensate for change and at the same time the inability to accept change. Thus students facing setbacks from changing learning levels are beginning to receive the serious attention of a psychologist. The level of student drop-out from academic activities is caused by the disruption of the order of the student's basic psychological process. This discrepancy can be caused by other factors, such as family status, first-time teachers, schoolmates, and peers.
- *Methods for fostering cognitive curiosity (Breakup)*: Breakups are caused by a number of factors, including family background, school background, social environment, art project difficulties, learner mood, motivation, economic status, social habits, exam-centered learning and teaching activities, dissatisfaction with teacher and resource personnel duties, and fear of intermittent students. This problem is more prevalent in rural areas than in urban areas. This is because parents in rural areas are less interested in education than in urban areas. The general opinion of rural parents is that their children should be somewhat educated. As this situation changes, so does the break.
- Methods of creating responsibility and duty: The economy is seen as important for the development of education. Upcountry students are being severely affected by this. The economy which is the backbone of educational development in some cases hinders the learning of the children. Causing setup and interruption. When a child growing up in a poor home environment goes into business thinking that he or she has to give up his or her work due to family status, the question arises as to what the study is for, even when the poverty of the home environment is questionable. Thus bringing school education to an end.



Fig 2: EMLM Focused Areas

Many unexpected things happen in our lives. In this way, 4.2. Subjective-practical Management children who are interested in learning can have sudden illnesses, accidents, loss of parents, conflicts, etc. that can affect their lives. Even such events can in some cases lead to child abuse. Another reason why students get bored of learning and take breaks is because of the teaching method. Boredom occurs in the classroom when the classroom does not carry out the teaching process in a way that differentiates between those who are slow learners, those who are resilient, and the most backward students. Therefore, it is necessary to take sound decisions to recover the students from such a situation and build a better society. To this end, steps must be taken to reduce the gap.

Identify measures that can be taken to reduce student dropouts. That is, the teacher should treat the child entering the school as if he were his own child. The classroom should be well organized and arranged in such a way as to attract students and motivate them to learn. The teacher should pay close attention to the teaching in relation to the students' real life experiences. The teacher should be constantly instructing their students about their progress. All students in the class should be treated equally. Students need to set up a team system to retrieve what they have learned. All students in the class should often be assigned a one-time leadership responsibility.

Results and discussion

The proposed machine learning evaluation model (MLEM) 4.3. Social significance was compared with the existing technology enhanced learning (TEL), Academic decision support system (ADSS), decision support system (DSS) and control and communication management (CCM)

4.1. Successful environment Management

Creating a successful environment for learning activities is a way to motivate students to prevent poor progress. This method is used for students who experience some difficulties in study. Students should be taught accordingly considering their ability. The emphasis should be on group teaching rather than on examination methods. The use of auditory and

Copyrights @Kalahari Journals

auditory devices should be used in such a way that students can make choices while teaching. Because, it was stimulate The comparison of successful students' learning. environmental management was shown in following in table 1.

T 11	4	a .	c	•			· ·	01
Tabla	1 • 1	('omnorico	noto	onviron	mont A	longamont	(1n	0/~ 1
	1	COHIDal180	пог				(111	70
		r					(,

No of inputs	TEL	ADSS	DSS	ССМ	MLEM
1000	71.27	53.02	64.39	85.47	91.05
2000	70.22	52.01	63.25	84.55	91.48
3000	69.51	51.08	62.14	83.22	90.24
4000	68.21	50.08	61.44	82.35	90.13
5000	67.33	49.11	60.32	81.23	89.73
6000	66.34	48.14	59.32	80.16	89.33
7000	65.35	47.16	58.32	79.09	88.93

In order to eliminate bad progress, this method is used less and less in modern school practice. Subjective practice is based on creating conditions when misconduct, illiteracy, discipline, and the violation of public order become unprofitable. When various measures are taken to reduce the gap, the human resources of each country will be enhanced and the country will have the opportunity to develop and the society will progress and the number of educated people in the community will increase.

The comparison of practical management was shown in following in table 2,

No of inputs	TEL	ADSS	DSS	ССМ	MLEM
1000	74.08	56.01	67.17	89.08	93.18
2000	73.75	54.51	66.58	87.21	92.14
3000	72.41	53.40	65.60	86.38	92.01
4000	71.74	52.03	64.88	84.86	91.27
5000	70.91	50.73	64.10	83.51	90.69
6000	70.07	49.42	63.31	82.16	90.10
7000	69.24	48.12	62.53	80.81	89.52

Table 2: Comparison of practical Management (in %)

The belief of school students in the social significance of learning involves revealing the role of science in the development of the whole community. The development of the general education worldview significantly enhances labor productivity, creates opportunities for broader rationalization and innovation, automats mechanization and production and, based on this, facilitates labor processes, revolutionizes the use of scientific conclusions. Changes in production - these are all important elements in understanding the social significance of labor. In this case the stories, dialogues, and lectures take on the character of debt-inducing methods in learning.

Vol. 6 No. 3(December, 2021)

The comparison of social significance management was shown in following in table 3,

No of inputs	TEL	ADSS	DSS	ССМ	MLEM
1000	67.92	49.71	66.65	87.29	90.57
2000	67.21	48.78	65.54	85.96	89.37
3000	65.91	47.78	64.84	84.88	89.21
4000	65.00	46.83	63.87	83.63	88.36
5000	64.00	45.86	62.96	82.43	87.68
6000	62.99	44.90	62.06	81.22	87.00
7000	61.99	43.93	61.15	80.02	86.32

Table 3: Comparison of social significance (in %)

4.4. Personal importance

This is where teachers face specific challenges. If school children still understand the importance of learning lessons close to the profile of expected excellence, they should further explain the importance of learning other lessons. For example, when students choose a technical profile of expertise, they should explain the role and importance of the humanistic cycle of subjects that contribute to the development of a cultural worldview. Lack of a cultural and moral worldview often causes discomfort to the individual in the social context. Students should also believe in the need to study the cycle of the social sciences that create the conditions for successful participation in the socio-political life of the country.

The comparison of personal importance was shown in following in table 4,

No of inputs	TEL	ADSS	DSS	ССМ	MLEM
1000	70.11	51.10	69.00	89.12	91.10
2000	68.97	50.72	67.79	88.21	90.14
3000	67.83	50.34	66.58	87.30	89.18
4000	66.69	49.96	65.37	86.39	88.22
5000	65.55	49.58	64.16	85.48	87.26
6000	64.41	49.20	62.95	84.57	86.30
7000	63.27	48.82	61.74	83.66	85.34

Table 4: Comparison of personal importance (in %)

4.5. Presentation requirements

This method is resolute by the policy of behavior, the criterion for evaluate understanding in all topics, domestic policy, and the school contract. It should be remembered that stimulating a sense of duty and responsibility in learning should be linked to the effectiveness of school work and the methods of accustoming students to educational needs because school children may lag behind in the absence of such skills. A significant position here is performed by the role models of extra for the teachers. The comparison of successful

Copyrights @Kalahari Journals

environmental management was shown in following in table 5,

Table 5: C	omparison	of presentation	requirements	(in %)
------------	-----------	-----------------	--------------	--------

No of	TEL	ADSS	DSS	CCM	MLEM
inputs					
1000	71.78	53.71	70.57	91.82	92.27
2000	71.45	52.21	69.98	89.95	91.26
3000	71.12	50.71	69.39	88.08	90.25
4000	70.79	49.21	68.80	86.21	89.24
5000	70.46	47.71	68.21	84.34	88.23
6000	70.13	46.21	67.62	82.47	87.22
7000	69.80	44.71	67.03	80.60	86.21

5. Conclusion

The Parents need to develop technical knowledge to guide and guide their children. Short videos through multimedia should impress the students with the necessary knowledge development through visual sharing. This will unnecessarily restrict their entertainment time to developing and understanding. They will also develop multimedia knowledge. The proposed machine learning evaluation model (MLEM) was compared with the existing technology enhanced learning (TEL), Academic decision support system (ADSS), decision support system (DSS) and control and communication management (CCM). Teachers need to crawl beyond the classroom. Sharing the lessons of the past with the students is an important requirement. Teachers need to come up with political and social knowledge. Teachers should be the bridge between the government and government representatives. Teachers and school administrations must take action to ensure that their students receive the educational equipment and funding they need without delay. External education should increase tourism education and direct training education.

References

- Daniela L (2017) An overview on effectiveness of technology enhanced learning (TEL). Int J Knowl Soc Res 8(1):79–91. https://doi.org/10.4018/IJKSR.2017010105
- [2] Paz AM, Gerardo BD, Tanguilig III BT (2014) Academic decision support system for college completion model. In: International conference on advances in computer and electronics technology
- [3] Livieris IE, Mikropoulos T, Pintelas P (2016) A decision support system for predicting students' performance. Themes Sci Technol Educ 9:43–57
- [4] Daniel, A., Bharathi Kannan, B., Yuvaraj, N., & Kousik, N. V. (2021). Predicting Energy Demands Constructed on Ensemble of Classifiers. In Intelligent Computing and Applications (pp. 575-583). Springer, Singapore.
- [5] Ren Z, Sweeney M (2016) Predicting student performance using personalized analytics, pp 61–69
- [6] Provost F, Fawcett T (2013) Data science and its relationship to big data and data-driven decision making. Big Data 1(1):51–59. https://doi.org/10.1089/big.2013.1508
- [7] Logeshwaran, J. (2022, March). The control and communication management for ultra dense cloud system Vol. 6 No. 3(December, 2021)

International Journal of Mechanical Engineering

using fast Fourier algorithm. ICTACT Journal on Data Science and Machine Learning, 3(2), 281–284

- [8] Polyzou A, Karypis G (2016) Grade prediction with models specific to students and courses. Int J Data Sci Anal 2(3):159–171.
- [9] Kumar, A. S., Jule, L. T., Ramaswamy, K., Sountharrajan, S., & Gandomi, A. H. (2021). Analysis of false data detection rate in generative adversarial networks using recurrent neural network. In Generative Adversarial Networks for Image-to-Image Translation (pp. 289-312). Academic Press.
- [10] J. Logeshwaran and R. N. Shanmugasundaram, "Enhancements of Resource Management for Device to Device (D2D) Communication: A Review," 2019 Third International conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), 2019, pp. 51-55, doi: 10.1109/I-SMAC47947.2019.9032632
- [11] Praghash, K., Raja, R. A., & Karthikeyan, T. (2021). An Investigation of Garbage Disposal Electric Vehicles (GDEVs) Integrated with Deep Neural Networking (DNN) and Intelligent Transportation System (ITS) in Smart City Management System (SCMS). Wireless Personal Communications, 1-20.
- [12] Basow SA, Codos S, Martin JL (2013) The effects of professors' race and gender on student evaluation and performance. Coll Stud J 47:352–363
- [13] Boswell SS (2016) Ratemyprofessors is hogwash (but I care): Effects of Ratemyprofessors and university-administered teaching evaluations on professors. Comput Hum Behav 56:155–162
- [14] Syed, S. A., Sheela Sobana Rani, K., Mohammad, G. B., Chennam, K. K., Jaikumar, R., Natarajan, Y., ... & Sundramurthy, V. P. (2022). Design of Resources Allocation in 6G Cybertwin Technology Using the Fuzzy Neuro Model in Healthcare Systems. Journal of Healthcare Engineering, 2022.
- [15] Goos M, Salomons A (2017) Measuring teaching quality in higher education: assessing selection bias in course evaluations. Res High Educ 58:341–364
- [16] Hernández-Julián R, Looney A (2016) Measuring inflation in grades: An application of price indexing to undergraduate grades. Econ Educ Rev 55:220–232
- [17] Shukla, A., Kalnoor, G., Kumar, A., Yuvaraj, N., Manikandan, R., & Ramkumar, M. (2021). Improved recognition rate of different material category using convolutional neural networks. Materials Today: Proceedings.
- [18] Linse AR (2017) Interpreting and using student ratings data: Guidance for faculty serving as administrators and on evaluation committees. Studies in educational Evaluation 54:94–106
- [19] Chalaris M, Gritzalis S, Maragoudakis M, Sgouropoulou C, Tsolakidis A (2014) Improving quality of educational processes providing new knowledge using data mining techniques. Procedia Soc Behav Sci 147:390–397
- [20] Sara, S. B. V., Anand, M., Priscila, S. S., Yuvaraj, N., Manikandan, R., & Ramkumar, M. (2021). Design of autonomous production using deep neural network for complex job. Materials Today: Proceedings.
- [21] Chau VTN, Phung NH (2012) A knowledge driven education decision support system. In 2012 IEEE RIVF international conference on computing communication

technologies, research, innovation, and vision for the future, pp 1-6

- [22] Grivokostopoulou F, Perikos I, Hatzilygeroudis I (2014) Utilizing semantic web technologies and data mining techniques to analyze students learning and predict final performance. In: International conference on teaching, assessment and learning (TALE), pp 488–494
- [23] Manikandan, R., Sara, S. B. V., Yuvaraj, N., Chaturvedi, A., Priscila, S. S., & Ramkumar, M. (2022, May). Sequential pattern mining on chemical bonding database in the bioinformatics field. In AIP Conference Proceedings (Vol. 2393, No. 1, p. 020050). AIP Publishing LLC.
- [24] Kužnar D, Gams M (2016) Metis: system for early detection and prevention of student failure. In: 6th international workshop on combinations of intelligent methods and applications (CIMA 2016), p 39
- [25] Livieris IE, Drakopoulou K, Kotsilieris Th, Tampakas V, Pintelas P (2017) DSS-PSP—a decision support software for evaluating students' performance. In: Engineering applications of neural networks (EANN), vol 744. Springer, pp 63–74
- [26] Ponnusamy, M., Bedi, P., Suresh, T., Alagarsamy, A., Manikandan, R., & Yuvaraj, N. (2022). Design and analysis of text document clustering using salp swarm algorithm. The Journal of Supercomputing, 1-17.
- [27] Noaman AY, Luna JM, Ragab AHM, Ventura S (2016) Recommending degree studies according to students' attitudes in high school by means of subgroup discovery. Int J Comput Intell Syst 9(6):1101–1117

Copyrights @Kalahari Journals