



Understanding Blended Learning Advantages and Limitations

¹* K Ram Chandra, ²Eknath Tatte, ³M. Ramachandran, ³Vimala Saravanan

¹Velagapudi Ramakrishna Siddhartha Engineering College (Autonomous), Vijayawada, AP, India

²B S Patil Mahavidyalaya, Paratwada Di. Amravati, Maharashtra, India.

³REST Labs, Kaveripattinam, Krishnagiri, Tamil Nadu, India.

*Corresponding author Email: vimala@restlabs.in

Abstract. Mixed Learning is an educational approach system. Time, place, this with some element of student control over the path or speed, the physical presence of both the teacher and the student is required. It provides an opportunity for individuals to experience the best of both worlds. For example, as a student in the real world classroom you can attend classes at the organization and then fill out the syllabus by studying online. multimedia course. Blended learning Provides learning Comfort and flexibility; they have the ability to control their learning pace and those with the ability to learn remotely. Mixed learning provides a comprehensive understanding of the content to learners of the lesson Says academic research. Mixed Learning (also known as hybrid learning) is an introduction to technology and digital media in traditional instructor-led classrooms. Is this the method of teaching? Integrates with activities, which gives students more flexibility to customize their learning experiences. Hybrid learning focuses on a set rate and a combination of offline and online instruction Pays, while hybrid learning seeks to find a flexible balance between online and offline, which is unique Encourages even better experience for students. A mixed course consists of face-to-face class sessions with online materials and activities - mainly live and the "mix" of the two online learning. This is a major reason why students often perform better in mixed courses, but they often have more motivation and less anxiety. The online learning environment depends on computers connected to the Internet. Responsibility for learning shifts primarily to learners. In contrast, mixed learning is face-to-face teaching and Is a combination of an online approach. Mixed learning is a set of digital provide individualized activities and a better learning experience is mixed. The use of learning tools can occur during or after a live session and can support a variety of educational purposes. Modular learning, as the term implies, uses learning modules that make it easier for students to learn on their own. Modular Learning is a form of distance learning that is highly developed by teachers with the help of curriculum developers Uses Self-Learning Modules (SLMs) based on Essential Learning Skills (MELCS). Blended Learning Combines the Benefits of e-learning and face-to-face training. Large numbers of learners in remote areas Inexpensive and highly effective learning in reach. A little bit over time And learning that often supports structured practice. Mixed learning provides flexibility in availability. In other words, while enjoying the benefits of mixed learning, face-to-face support and instruction, it does not help the student to access objects from time to time and from anywhere. A mixed approach to learning. By integrating face-to-face learning activities with online learning components Curriculum design that enhances teaching and learning experiences for students and teachers. "Mixed learning is an interdependent mix of face-to-face and online education Collaboration. One of the key factors required for effective learning is collaboration. The distance we know today is Education. His course focuses on shorthand.

1. Introduction

With these things said, online classes are better. It is a form of learning that fits our ever-changing world – an education that works remotely and quickly without compromising the student-teachers experience. Modules consist of groupings of lessons. Lessons are individual training 'units' that consist of videos, text blocks, links and downloadable resources. There are many ways to organize your course content. What is asynchronous learning? Asynchronous learning in your own schedule, you have to learn within a certain time frame. Lectures, readings, you a week or two Access and complete homework and other learning materials at any time of the week. It is difficult, boring, and the amount of new information is high. This not only frustrates the students but also the teacher. The lecturer is also occasionally distracted - after all, we are all human. Teaching is low cost, very affordable and saves time. Mixed learning provides flexibility in availability. In other words, while experiencing the benefits of mixed learning, face-to-face support and instruction, the student can access objects from anywhere at any time. Helps. Mixed learning promotes self-learning, where students are forced to sit in a classroom setting and search for information online independently, without trusting the lecturer. Research shows that students who attend mixed learning courses have higher achievement scores than those who attend traditional teaching. Later, it can increase student motivation and give them new experience in the learning process. Mixed Learning allows companies to provide a personalized learning experience to learners within a portion of technology that improves cost and time to engage and support the individual learning needs of each learner. Based on data collected by Deed's National Learning Admission and Survey Forms (LESFs) 8.8 million out of 22.2 million registrants (39.6% of total respondents) want modular distance learning in the coming academic year. Students and instructors from different places attend concurrent classes in real time. With most asynchronous classes running on a sober schedule, students can access class objects at different hours and from different locations. Mixed Learning Course Helps participants work together, engage in discussions, and provide useful

feedback to each other, which will undoubtedly lead to improvement and greater engagement. Sir Isaac Pitman begins his first distance education course. Despite differences of opinion before Pitman, he was, according to Smith and Broom, identical. Related For face-to-face meetings: "Online courses provide at least 80 percent of course content online, while hybrid / hybrid learning" 30 to 80 percent of course content Online provides some face-to-face interaction "System and Structure Only Learning Context Directly with Mixed and Distance Learning These learning methods "redefine traditional educational roles and provide different learning opportunities ".

2. Blended Learning



FIGURE 1. 7 Ways Blended Learning Will Inspire You

When looking at the Job Line LMU syllabus it becomes clear at first glance that the lead mode is calling with different sub-modes (self-access online learning, guided web search and email).Learners are guided through the learning process by the online learning path and the online instructions given at each stage of the lesson. Fat phases play a role and for speech training Offer opportunities. They do not provide a formal orientation throughout the course and should not act as a "repair shop" for lack of instruction and guidance within the call elements of the course. What makes mixed learning particularly effective is the ability to facilitate the inquiry community. Open communication and unlimited access to information on the Internet Balancing provides a solid, cohesive influence community. Communities offer free and open dialogue, critical discussion, negotiation and agreement — the uniqueness of higher education. Mixed learning has the potential to ease these conditions and incorporate an important reflective component with a wide variety of communications to meet specific learning needs. For example, a At the beginning of the curriculum, it may be beneficial to have a face-to-face class to meet and build community. Conversely, discussing a complex issue that requires reflection can best be accomplished through an asynchronous web discussion forum. you to spread content. and training extra helps some options, especially for those more -centered for "people" people. Of complex or difficult concepts and theories It also provides gradual growth. Other activities used as proxies for the effect are subjective effect variables (perceived application, satisfaction and motivation) initially different to determine the impact of two types of activity related to mixed learning The variables were analyzed. Thus, we measured the perceived application of face-to-face learning and online learning activities. Face classes and the value of their interest, influence and reinforcement Following the motivation to participate in online activities measured by, another variable was structured to reflect the overall effect of mixed learning; Thus, from the mixed learning experience We measured the perceived utility from mixed learning activities by the satisfaction obtained and the motivation generated by mixed learning. e Contemporary BL environment is full of innovation and creativity. The diversity of blends operates in the range of possibilities to transform students 'learning experience. Over time, taxonomies and more widely Adopted models provide additional sustainability for researchers and practitioners. The section on chapters highlights several key examples of emerging BL models. Current models are the physical dimensions of learning environments and the most common Focus on high-level teaching approaches. This paper describes how to teach lessons using the BL-based e-learning model, a combination of independent learning, online discussions and problem-based learning (PPL). This model utilizes both the f2f environment and the online environment using the Learning Management System (LMS). The educational activities and technology used will be described with the results of the assessment. Visually modeling these teaching / learning scenes to capture and better understand and support one's own teaching / learning practices. Collecting and finding out how best to

support those views on the Internet has proven useful. Technology. Continuing student feedback and brief evaluation By the way it is easy to realize that multiple scenarios are useful in different subjects. This includes generalizing them, including the structure, flow of functions, and the many parameters discussed in Section 4. Led to describe models and patterns. For good design practice these forms should be as independent as possible from any particular process and should eventually be implemented. D.

3. Online Learning

The second case presents the experiences of an online research team, and the third case describes the experiences of online team work in MBA classes. These dissertation skills (which I understand to be effective in projects and groups) can be taught and adapted to the online world. Teachers make their experiences convincing. However, twenty years after Andrew Feinberg presented his experience in management education at the Western Institute of Behavioral Sciences, I am concerned that it is still necessary to emphasize this fact. And a hypothesis class, Consistent It is very easy to create an array of examples that actually do $|H| - 1$ mistake. Next, we present an excellent algorithm in which we choose the best $h \in TV$. This algorithm is guaranteed to make exponentially fewer mistakes we will see. The idea is to make predictions based on most hypotheses on TV rather than some arbitrary $h \in VT$, thus ensuring that at least half of the hypotheses is removed from the version space whenever we make a mistake. Working together and learning in the online environment has become an integral part of both the business practice and the higher education process. Pall off and Pratt, Experienced online instructors and educational consultants have tapped into this trend early on, producing a series of books on online learning. Cyberspace lessons in the cyberspace classroom include learning communities and creating virtual student collaborations online. Series. I have read all the Buff and Brad books and have found them to be useful in my teaching and my counseling practice. Much of the world has been isolated by the devastating outbreak of Govt-19, a global epidemic, so many cities have been turned into magic cities, and schools, colleges and schools have been affected. Can also be found in universities. Between all of this, online teaching and online learning can be called the panacea for the crisis. Coronavirus companies in offline mode have transformed from the online education system. This crisis will force companies that were previously reluctant to change to adopt modern technology. This is a disaster teaching online and Will show us the profitable side of learning. With the help of online teaching methods, we can preach to a large number of students in any part of the world at any time. Lack of social awareness and / or isolated feelings are almost a Bar. For example, some researchers write that participation improves learning without mentioning the need for or any research that supports such statements, with studies highlighting the pros and cons of students in distance education. Have documented. The authors reviewed the literature, especially on students 'perceived barriers to online learning and students' learning barriers in general. Barriers, problems and from the point of view of students that can affect learning outcomes The goal was to look for factors of success (e.g., learning ability, learner attitude and motivation). We also looked for indications that the learner's background characteristics and statistics may affect the outcome of their online learning.

4. Social Interactive Learning

24 college understudies And a music teacher took an interest in the review. All members were ladies, sound, and right-gave, and were selected through promotions at the Ordinary University of East China. As a matter of fact, The student didn't get formal music preparation, while the educator had 13 years of music learning experience. Every student joins the teacher as a learning-educator, partaking all in all Make eats less carbs. This course of action expects to make the showing style as uniform as could be expected. Every member marked an educated assent before the test and was needed to pay 30 to take an interest. Paid. The review was endorsed by the University Research Committee on Human Research Defense of the Ordinary University of East China. Also, Borate and Hal gin Distinguish two related areas of organization hypothesis. Organization hypothesis utilizes organizations to work out friendly and monetary results Uses, the Theory of Networks understanding of the organization and investigates the conditions that cause specific organization properties. This distinction fundamentally alludes to the job of organization factors in a reason impact research plan, where one explanation is that it is essential for network hypothesis And thus it is important for the hypothesis of organizations. Hypotheses of organizations are speculations that anticipate network properties with trademark data or other organization properties. To investigate understudies' encounters, the two cross breed modules remember a web-based poll for web based learning exercises and an up close and personal part survey. Were assessed. Every member got a poll subsequent to finishing a square. Members in an internet based part related poll They were approached to assess learning materials, educator management, and correspondence with peers. Joint capacities in the survey were five appraisal questions related, five evaluation questions identified with e-evaluator and four appraisal questions identified with instructors. There are two primary ways to deal with bunch arrangement in helpful learning (Meyer, 2009): understudy self-choice and workforce task. Though the previous consists of allowing understudies to pick their favored partner(s), the last option gives full control to the instructor who allots the understudies either haphazardly or by attempting to arrive at a certain or unequivocal objective. The circumstance of improper learning accomplices doled out by teachers or self-chose learning accomplices regularly happens in community learning settings. Naming unseemly learning accomplices diminishes learning execution and communitarian learning its Leads to loss of significance. Li and Zhao (2008) Groupization is a significant stage in electronic community oriented

learning, frequently generally regardless of the attributes of individual students. Is done roughly. Accordingly, the nature of learning on the center site was not also accomplished as wanted. Our emphasis on such a class of games has been animated by various contemplations. Since such games have a novel equilibrium, the game hypothesis is an extraordinary one with regards to the conduct of specialists. Additionally, not each of the 21 games we considered had degenerate arrangements: in balance, subjects needed to change their conduct haphazardly. Notwithstanding the clear straightforwardness of game designs, it is a wellspring of intellectual intricacy. The Nash balance turns into the most noticeably awful indicator of noticed conduct in such games (in large numbers of them, it performs more terrible than the "arbitrary conduct" expectation). At last, this is the class of games, where There are colossal preliminaries with sufficient reiterations. The model introduced here shows how convictions about the singular climate shape a gathering's craving to take part in learning conduct Filming. Learning conduct requires development cycles and co-development cycles of importance, with inventive coml. It fills in as a vehicle for development (equal) - commonly shared information Building development will prompt more prominent group execution. Two corresponding points of view added to this model. In the first place, examination as an essential social cycle for building aggregate learning information Is finished. We present our perspective on community oriented learning and the qualities of talk in which aggregate information arrangement happens. Second, this viewpoint will be supplemented by a clarification of key parts of the social climate wherein this learning happens.

5. Transfer Students

To make the driving experience more straightforward, PC games need to have specific attributes. Sweater and White (2005) Most of the players' apparent abilities He said that are significant and they need to coordinate with the test upheld by the game. Both to work with and keep up with the stream during the game To be in balance. Better and Wyeth (2005) added that challenge is the main part of good games; They need to give enough difficulties, Thus the degree of ability of the player can be handily coordinated by changing the degree of trouble, which should keep the suitable speed. Plus, 'games should be usable and furnish players with clear objectives and significant plans to work with the driving experience '. As indicated by Kilo, the improper difficulties of the gaming climate and the helpless utilization of PC games lessen the probability of a stream insight. Three philosophical viewpoints help to direct this review: Bass' perspective on the nature of exertion, the hypothesis of understudy commitment, and the idea of social shock. The fundamental standard of the Base idea of Quality of Effort (QE) is that an understudy leaving school is the thing that the school does or doesn't do. Doesn't rely upon; It relies upon the size and nature of the work the understudy takes in school. The idea of value depends on two points of view: (a) Education is an interaction And an item; And (b) the understudy should put time and exertion in all learning and improvement (page 5). Time is a recurrence aspect, while exertion is a standard aspect. Bone hypothesis of understudy association alludes to a bunch of conduct parts; What the singular thinks or It doesn't make any difference what the individual feels, yet what the individual does and how the person in question acts is involved Defines and distinguishes ". Bone hypothesis about understudy contribution, how understudies Used to peruse and clarify the elements of what is advancing. All the more explicitly, Theory Researchers over the course of the years can clarify the vast majority of the experimental information about ecological effects on understudy advancement. Junior college understudies want to move to a 4-year school or college to seek after their school professions in 4-year universities and colleges. Beginners deal with different instructive issues that their friends don't understand. Scholastic accomplishment in secondary school and junior college, four year certification Is a dependable mark of an understudy's capacity to acquire. What's more, understudies' scholastic accomplishment as exhibited by the GPA and in a junior college Completion of greatest convertible credit periods predicts understudy maintainability in finishing the lone wolves degree. Junior college Administrators And employees ought to underline to understudies the significance of these elements prior to moving understudies. Information are likewise accessible reporting the quantity of undergrad turn around students from other schools in certain states. In the fall, on Texas Community College records around one percent are understudies moved from colleges. Maryland Higher Education Authority Between Fall and Fall, four in Maryland Found that multiple thousand understudies were moved from yearly schools to junior colleges in the state. Somewhat, in excess of 7,000 Students were moved from junior colleges to public four-year schools. Fall Oklahoma understudies In the review, moves from public and privately owned businesses to public organizations inside the state represented more than one percent of URTS. This unmistakable review had two purposes. To start with, how understudies view the migration cycle, both junior college and college Including how the interaction was worked with and what each organization might have done to work with the cycle. For understudies and instructors This is a blend of cooperation, preliminaries and missions, participation approaches, scholastic guidelines, including educator perspectives, and the homeroom climate. How understudies apparent certain parts of the instructive climate of every organization characterized in the review The subsequent design is to realize that. Furthermore, practices, and understudy mentalities and practices. The reason for the model of understudies moved from specialized and school move programs Table 1 gives segment data. The greatest variety of this model is for dark understudies Is in percent. Factual tests for age and race were huge at 0.000 monkey esteem; nonetheless, the test for sex gave a p-worth of 0.059, the Gender and College Transfer Plan Suggests that there is no connection between's order as understudy or specialized program understudy.

6. Marginal Effects

Third, the distinction among AME and MEM increments with the variety of direct expectation. Variety of straight expectation mirrors the variety of individual edge impacts. The bigger the boundary assesses the bigger the change of the straight forecast Will be. This shows that the distinction among AME and MEM is bigger when the boundary evaluations are bigger, keeping any remaining variables consistent. Result - 0.4. As 0.4 for all factors dependent on the comparing blunder Is normal. The comparing related blunders noticed are roughly 0.32 for stretch and battle and .0.20 for psi. The related blunders noticed are not indistinguishable from the normal relative mistakes. Be that as it may, in the event that we think about persistent factors span and battle, the normal worth Is moderately near the noticed worth. The huge error between the noticed and expected qualities for the pseudo-variable psi might be because of the way that it is just legitimate for the pseudo-factors. With edges, it is much more straightforward to get these outcomes, and some more. A particular worth or We utilize the at choice to change a variable in the arrangement of qualities. At the Means choice, it advises the edges to change any remaining factors in their calculations. Assuming we need to perceive how the likelihood of creating diabetes in the normal individual changes across age gatherings, we can accomplish something like this: 4 Margin impacts shift from one individual to another, so contrast edge impacts and the degree of basic danger in the climate. Give the revealed edge impacts. For instance, if the basic danger is 80%, the change is little with a 1% likelihood May show up, yet might be bigger to an uncommon impact. Alert ought to be practiced when announcing minor impacts from case-control considers. In this model, the example proportions of the impact esteems don't address the populace. 5 Simple Logistics Models Have a Meaningful Margin Effect or doesn't give significant danger. The pace of a case-control study, sours is the right measures to identify with this framework. On the off chance that a pay source addresses an enormous portion of the complete income, it can significantly affect imbalance. Notwithstanding, the pay is equivalent If conveyed ($G_k = 0$), regardless of whether its extent is huge, it doesn't influence the disparity. Then again, this type of revenue is huge and inconsistent If it is additionally circulated (Ski and G_k are huge), it can increment or decline the disparity relying upon which families (people) acquire at which focuses in the pay dissemination. If the type of revenue is inconsistent circulated and streams relatively to those over the pay appropriation (ark positive and enormous), its commitment to imbalance will be positive. Nonetheless, regardless of whether it is dispersed inconsistent, in the event that it targets helpless families (people), the type of revenue might equally affect the circulation of pay. Many subtleties of FPs and their demonstrating are introduced in Royston and Sauerbrei (2008) in a homogeneous and various setting. In the state, just Model FPs are executed in order part and multivariate FPs (models) on the guide. In State 13, the guide stays unaltered, yet of dandy Broccoli was supplanted by the new order (in spite of the fact that Fracopoli keeps on working). Marginsconplot turns out great with fp. For instance, peacock or coxcomb Information conveyed by FP-changed over factors created by Generator, approved by Margins Contort Method utilized. Note the augmentation of the auto.dta guide to permit the FP capacity of weight: The initial phase in this improvement is to focus all progressive factors to the ideal reference point. Edge on models with non-direct spellbinding factors the most regularly picked reference point for computing the impacts is the variable technique. Taking deviations from the calculation is the first factor gives a worth of 0 for the normal default variable. If an enlistment structure is utilized, the variable would first be able to be characterized as equivalent to one overall (i.e., the variable By separating by the mean), then, at that point, the records can be taken so the variable is equivalent to 0 on its logged normal Be.1 obviously, reference point factors are not only for guidelines; Variables can be standardized to any ideal worth equivalent to 0. In this article, we take a gander at the probabilities of gatherings inside relapse models and the likelihood of negligible impacts of oppressors on likelihood. We make exits from exploration to make a typical system. Our strategies make guides and tables; they are can address critical persuasive inquiries regarding bunch contrasts. We have new tests not made, but instead to determine models, to test forecasts across gatherings, and We additionally utilize standard techniques to think about edge impacts in manners that keep away from the snares of normal misinterpretations in the generous writing.

7. Conclusion

For instance, toward the start of an educational plan, an up close and personal class on the most proficient method to meet and fabricate local area having can be gainful. On the other hand, talking about a complicated issue that requires reflection might be best cultivated through a nonconcurring web conversation discussion A live homeroom permits you to spread unpublished substance. Furthermore, students approach companions and specialists. Gathering conversation and preparing May add additional interest to a theme. "Online courses imply that somewhere around 80% obviously content is offered on the web." Mixed/crossover learning, in the mean time, "represents 30 to 80 percent of the course content offered online with some immediate contact." The strategy and design of the learning climate not just recognize blended and distance gaining from the conventional eye to eye approach; These learning strategies are customary Education reclassifies jobs and offers an assortment of learning openings. It is additionally extremely simple to make a variety of models | H | - 1 misstep. Then, we present a brilliant calculation wherein we pick the most ideal way to h TV We do. We will see that this calculation is ensured to commit dramatically less errors. As indicated by some subjective h VT erratic on TV the thought is to foresee as per most theories, so that at whatever point we commit an error, we eliminate half of the speculations from the form space. Cooperating and learning in the internet based climate has turned into a basic piece of both the business practice and the

advanced education process. Social awareness And/or absence of secluded sentiments are different difficulties that students report in their internet learning encounters. Internet learning members wonder very much noticed the absence of contact with the educator, particularly the "relational" relationship with the teacher. Said one member in the review Like, "I actually feel like I know a smidgen about my teacher, yet it's not the same way in case I was in a class. I don't know much with regards to her personality." Found comparable outcomes. Every member marked an educated agree before the test and was paid 30 to take part. The review was endorsed by the University Research Committee on Human Research Defense of the Ordinary University of East China. Likewise, Borate and Holing recognize two related areas of organization hypothesis. Organization hypothesis is social and Uses organizations to compute financial results, the hypothesis of organizations is to portray the organization and some Explores the conditions that cause the properties. Time is a recurrence aspect, while exertion is a standard aspect. Bone Theory of Student Involvement a Refers to conduct parts; "It doesn't make any difference what the singular thinks or feels, however how the individual does and acts. Characterizes and recognizes association (1984, p. 298). The bone hypothesis of understudy association was utilized to peruse and clarify the elements of how understudies create. All the more explicitly, " this hypothesis clarifies the majority of the experiential information about natural effects on understudy advancement that specialists have acquired throughout the long term. Can " Community understudies intending to change to a 4-year school or college face an assortment of scholarly issues This isn't delighted in by their associates who start their school vocations in colleges May be. The related mistakes noticed are not indistinguishable from the normal relative blunders. Nonetheless, if we think about the stretch factors and battles, the normal worth will be moderately near the noticed worth. Because of the way that the enormous error between the noticed and expected qualities for the fake variable psi is just legitimate for the fake factors May be. With edges, it is considerably more straightforward to get these outcomes, and some more. Choice to change a variable for a particular worth or set of qualities We use. All the more explicitly, " this is the most observational information about ecological effects on understudy advancement that specialists have acquired throughout the long term The hypothesis can be clarified by " Community undergrads who intend to move to a 4-year school or college face an assortment of scholastic issues. 4-This may not be delighted in by their colleagues as they start their school professions at yearly universities and colleges.

Reference

- [1]. Neumeier, Petra. "A closer look at blended learning—parameters for designing a blended learning environment for language teaching and learning." *ReCALL* 17, no. 2 (2005): 163-178.
- [2]. Garrison, D. Randy, and Heather Kanuka. "Blended learning: Uncovering its transformative potential in higher education." *The internet and higher education* 7, no. 2 (2004): 95-105.
- [3]. Kaur, Manjot. "Blended learning-its challenges and future." *Procedia-social and behavioral sciences* 93 (2013): 612-617.
- [4]. Geethamani, R., T. S. Karthik, M. Deivakani, Vishal Jain, Anand Mohan, Meenu Chopra, Cosmena Mahapatra, and T. C. Manjunath. "Implementation of wireless home-based automation and safety arrangement using power electronic switches." *Materials Today: Proceedings* (2021).
- [5]. Townsend, Barbara K. "Community college transfer students: A case study of survival." *The Review of Higher Education* 18, no. 2 (1995): 175-193.
- [6]. Inal, Yavuz, and Kursat Cagiltay. "Flow experiences of children in an interactive social game environment." *British Journal of Educational Technology* 38, no. 3 (2007): 455-464.
- [7]. Santos Laanan, Frankie. "Studying transfer students: Part II: Dimensions of transfer students' adjustment." *Community College Journal of Research and Practice* 31, no. 1 (2007): 37-59.
- [8]. Flaga, Catherine T. "The process of transition for community college transfer students." *Community College Journal of Research and Practice* 30, no. 1 (2006): 3-19.
- [9]. Shukla, Prashant Kumar, Jasminder Kaur Sandhu, Anamika Ahirwar, Deepika Ghai, Priti Maheshwary, and Piyush Kumar Shukla. "Multiobjective genetic algorithm and convolutional neural network based COVID-19 identification in chest X-ray images." *Mathematical Problems in Engineering* 2021 (2021).
- [10]. P. K. Chidambaram, Amol Lokhande, M. Ramachandran, Vimala Saravanan, Vidhya Prasanth, "A Review on Biodiesel Properties and Fatty acid composites", *REST Journal on Emerging trends in Modelling and Manufacturing*, 7(3), 2021:87-93.
- [11]. Shukla, Niraj Kumar, Rajeev Srivastava, and Seyedali Mirjalili. "A Hybrid Dragonfly Algorithm for Efficiency Optimization of Induction Motors." *Sensors* 22, no. 7 (2022): 2594.
- [12]. Townsend, Barbara K., and John T. Dever. "What Do We Know About Reverse Transfer Students?." *New directions for community colleges* 106 (1999): 5-14.
- [13]. Geetha, D., V. Kavitha, G. Manikandan, and D. Karunkuzhali. "Enhancement and Development of Next Generation Data Mining Photolithographic Mechanism." In *Journal of Physics: Conference Series*, vol. 1964, no. 4, p. 042092. IOP Publishing, 2021.

- [14]. López-Pérez, M. Victoria, M. Carmen Pérez-López, and Lázaro Rodríguez-Ariza. "Blended learning in higher education: Students' perceptions and their relation to outcomes." *Computers & education* 56, no. 3 (2011): 818-826.
- [15]. Graham, Charles R. "Emerging practice and research in blended learning." In *Handbook of distance education*, pp. 351-368. Routledge, 2013.
- [16]. Alalmal, Ali, and Dr Gulnaz Fatma. "A., Arun & Aarif, Mohd.(2022). Significance and Challenges of Online Education during and After Covid-19. *Türk Fizyoterapi ve Rehabilitasyon Dergisi*." *Turkish Journal of Physiotherapy and Rehabilitation* 32: 6509-6520.
- [17]. Laanan, Frankie Santos. "Studying transfer students: Part I: Instrument design and implications." *Community College Journal of Research and Practice* 28, no. 4 (2004): 331-351.
- [18]. Rhine, Tammy J., Dawna M. Milligan, and Lynne R. Nelson. "Alleviating transfer shock: Creating an environment for more successful transfer students." *Community College Journal of Research & Practice* 24, no. 6 (2000): 443-453.
- [19]. Fredrickson, Janyth. "Today's transfer students: Who are they?." *Community College Review* 26, no. 1 (1998): 43-54.
- [20]. Fegade, Vishal, Krishnakumar Gupta, M. Ramachandran, S. Madhu, C. Sathiyaraj, R. Kurinji-alar, and M. Amudha. "A study on various fire retardant additives used for fire reinforced polymeric composites." In *AIP Conference Proceedings*, vol. 2393, no. 1, p. 020107. AIP Publishing LLC, 2022.
- [21]. Chitra, P., T. S. Karthik, S. Nithya, J. Jacinth Poornima, J. Srinivas Rao, Makarand Upadhyaya, K. Jayaram Kumar, R. Geethamani, and T. C. Manjunath. "Sentiment analysis of product feedback using natural language processing." *Materials Today: Proceedings* (2021).
- [22]. Hoic-Bozic, Natasa, Vedran Mornar, and Ivica Boticki. "A blended learning approach to course design and implementation." *IEEE transactions on education* 52, no. 1 (2008): 19-30.
- [23]. Pandit, Shraddha, Piyush Kumar Shukla, Akhilesh Tiwari, Prashant Kumar Shukla, Manish Maheshwari, and Rachana Dubey. "Review of video compression techniques based on fractal transform function and swarm intelligence." *International Journal of Modern Physics B* 34, no. 08 (2020): 2050061.
- [24]. Shukla, Niraj Kumar, Shashi Kant Pandey, and Rajeev Srivastava. "Efficiency and Cost Optimization of Three- ϕ Induction Motor Using Soft Computing Techniques." In *Computing Algorithms with Applications in Engineering*, pp. 305-318. Springer, Singapore, 2020.
- [25]. Manikandan, G., and S. Srinivasan. "An efficient algorithm for mining spatially co-located moving objects." *American Journal of Applied Sciences* 10, no. 3 (2013): 195-208.
- [26]. Rashid, Ekbal, Mohd Dilshad Ansari, Vinit Kumar Gunjan, and Mudassir Khan. "Enhancement in teaching quality methodology by predicting attendance using machine learning technique." In *Modern approaches in machine learning and cognitive science: a walkthrough*, pp. 227-235. Springer, Cham, 2020.
- [27]. Derntl, Michael, and Renate Motschnig-Pitrik. "The role of structure, patterns, and people in blended learning." *The Internet and Higher Education* 8, no. 2 (2005): 111-130.
- [28]. Roy, Rita. "Predicting User's Web Navigation behaviour using AMD and HMM Approaches." In *IOP Conference Series: Materials Science and Engineering*, vol. 1074, no. 1, p. 012031. IOP Publishing, 2021.
- [29]. Udgata, Siba K., Alefiah Mubeen, and Samrat L. Sabat. "Wireless sensor network security model using zero knowledge protocol." In *2011 IEEE international conference on communications (ICC)*, pp. 1-5. IEEE, 2011.
- [30]. R. Kurinjimalar, S. Vimala, M. Silambarasan, S. Chinnasami. "A Review on Coir fibre Reinforced Composites with Different Matrix", *REST Journal on Emerging trends in Modelling and Manufacturing*, 7(2), (2021):25-32.
- [31]. Harishchander, A., J. Michael Joshua, U. Benjamin Jason, and D. Alex Anand. "In silico analysis of carboxamide derivatives of piperidine as potential antagonists of CCR5." *BMC Infectious Diseases* 14, no. 3 (2014): 1-1.
- [32]. Paulsen, Morten Flate. "Book Review—Theory and Practice of Online Learning." *International Review of Research in Open and Distributed Learning* 5, no. 3 (2004): 1-6.
- [33]. Deepa, N., Asmat Parveen, Anjum Khurshid, M. Ramachandran, C. Sathiyaraj, and C. Vimala. "A study on issues and preventive measures taken to control Covid-19." In *AIP Conference Proceedings*, vol. 2393, no. 1, p. 020226. AIP Publishing LLC, 2022.
- [34]. Loganathan, K., Nazek Alessa, Ngawang Namgyel, and T. S. Karthik. "MHD flow of thermally radiative Maxwell fluid past a heated stretching sheet with Cattaneo–Christov dual diffusion." *Journal of Mathematics* 2021 (2021).
- [35]. Vimala Saravanan; M. Ramachandran; T. Vennila; G. Mathivanan "A Study on Multi-Objective Optimization on the basis of Ratio Analysis", *Recent trends in Management and Commerce*, 2(3), (2021):16-22
- [36]. Stalin, Shalini, Vandana Roy, Prashant Kumar Shukla, Atef Zaguia, Mohammad Monirujjaman Khan, Piyush Kumar Shukla, and Anurag Jain. "A machine learning-based big EEG data artifact detection and wavelet-based removal: an empirical approach." *Mathematical Problems in Engineering* 2021 (2021).

- [37]. Shalev-Shwartz, Shai. "Online learning and online convex optimization." *Foundations and trends in Machine Learning* 4, no. 2 (2011): 107-194.
- [38]. Manikandan, G., and S. Srinivasan. "Traffic control by bluetooth enabled mobile phone." *International Journal of Computer and Communication Engineering* 1, no. 1 (2012): 66.
- [39]. Anandaram, Harishchander, and Daniel Alex Anand. "Computational analysis of micro RNAs compatibility in pharmacogenomic based regulatory networks of psoriatic arthritis: an initiation towards identifying a potential miRNA to treat psoriatic arthritis." *Biocatalysis and agricultural biotechnology* 16 (2018): 545-547.
- [40]. Aatur rahman farooqi, D R pallavi, M. Ramachandran, S. Sowmiya, Manjula Selvam, "A Brief Study On Recent Trends in Financial Literacy", *Recent trends in Management and Commerce*, 3(1), (2022):40-45.
- [41]. Khan, Mudassir, and Aadarsh Malviya. "Big data approach for sentiment analysis of twitter data using Hadoop framework and deep learning." In *2020 International Conference on Emerging Trends in Information Technology and Engineering (ic-ETITE)*, pp. 1-5. IEEE, 2020.
- [42]. Scott, Michael D., Robert Belair, Marvin Benn, Andr  R. Bertrand, Arthur Fakes, Mark Gordon, Fred M. Greguras, Martin Hitz, Latour Dupuis, and John C. Lautsch. "EDITORIAL ADVISORY PANEL." (1991).
- [43]. Prakash, B., S. Jayashri, and T. S. Karthik. "A hybrid genetic artificial neural network (G-ANN) algorithm for optimization of energy component in a wireless mesh network toward green computing." *Soft Computing* 23, no. 8 (2019): 2789-2798.
- [44]. Rathore, Neeraj Kumar, Neelesh Kumar Jain, Prashant Kumar Shukla, UmaShankar Rawat, and Rachana Dubey. "Image forgery detection using singular value decomposition with some attacks." *National Academy Science Letters* 44, no. 4 (2021): 331-338.
- [45]. Vassil, Kristjan. "The Impact of ICTs on Political Behavior." (2011).
- [46]. Kurinjimalar Ramu; M. Ramachandran; M. Nathiya; M. Manjula " Green Supply Chain Management; with Dematel MCDM Analysis", *Recent trends in Management and Commerce*, 2(3),(2021): 8-15.
- [47]. Williams, Richard. "Using the margins command to estimate and interpret adjusted predictions and marginal effects." *The Stata Journal* 12, no. 2 (2012): 308-331.
- [48]. Bhatt, Ruby, Priti Maheshwary, Piyush Shukla, Prashant Shukla, Manish Shrivastava, and Soni Changlani. "Implementation of fruit fly optimization algorithm (FFOA) to escalate the attacking efficiency of node capture attack in wireless sensor networks (WSN)." *Computer Communications* 149 (2020): 134-145.
- [49]. Lopez-Feldman, Alejandro. "Decomposing inequality and obtaining marginal effects." *The stata journal* 6, no. 1 (2006): 106-111.
- [50]. Harishchander, A. "CComputational Analysis of Pharmacogenomic based Compatibility of Micro RNA in Regulatory Network of Psoriasis: A Bioinformatics approach to initiate the discovery of Systemic biomarkers to treat Psoriasis. *Op Acc J Bio Eng & Bio Sci* 1 (1)-2018." OAJBEB. MS. ID 101.
- [51]. Dhawan, Shivangi. "Online learning: A panacea in the time of COVID-19 crisis." *Journal of Educational Technology Systems* 49, no. 1 (2020): 5-22.
- [52]. M. Amudha; M. Ramachandran; Vimala Saravanan; P. Anusuya; R. Gayathri " A Study on TOPSIS MCDM Techniques and Its Application" *Data Analytics and Artificial Intelligence*, 1(1), (2021): 09-14.
- [53]. Bhuvanewari, G., and G. Manikandan. "A novel machine learning framework for diagnosing the type 2 diabetics using temporal fuzzy ant miner decision tree classifier with temporal weighted genetic algorithm." *Computing* 100, no. 8 (2018): 759-772.
- [54]. Anderson, Soren, and Richard G. Newell. "Simplified marginal effects in discrete choice models." *Economics Letters* 81, no. 3 (2003): 321-326.
- [55]. Khan, Mudassir, and Mohd Dilshad Ansari. "Multi-criteria software quality model selection based on divergence measure and score function." *Journal of Intelligent & Fuzzy Systems* 38, no. 3 (2020): 3179-3188.
- [56]. Royston, Patrick. "marginscontplot: Plotting the marginal effects of continuous predictors." *The Stata Journal* 13, no. 3 (2013): 510-527.
- [57]. Harishchander, A., S. Senapati, and D. Alex Anand. "Analysis of drug resistance to HIV-1 protease using fitness function in genetic algorithm." *BMC Infectious Diseases* 12, no. 1 (2012): 1-1.
- [58]. Song, Liyan, Ernise S. Singleton, Janette R. Hill, and Myung Hwa Koh. "Improving online learning: Student perceptions of useful and challenging characteristics." *The internet and higher education* 7, no. 1 (2004): 59-70.
- [59]. Suhasini, S., J. M. SheelaLavanya, M. Parameswari, G. Manikandan, and S. Gracia Nissi. "Input Based Resource Allocation in Motion Estimation using Re-configurable Architecture." In *2021 Fifth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud)(I-SMAC)*, pp. 1091-1095. IEEE, 2021.

- [60]. Vikrant Sharma; M. Ramachandran; Sathiyaraj Chinnasamy; Vimala Saravanan, " A Review on Structural Equation Modeling and Its Classification" *REST Journal on Emerging trends in Modelling and Manufacturing*, 7(4), (2022): 135-142
- [61]. Norton, Edward C., Bryan E. Dowd, and Matthew L. Maciejewski. "Marginal effects—quantifying the effect of changes in risk factors in logistic regression models." *Jama* 321, no. 13 (2019): 1304-1305.
- [62]. Long, J. Scott, and Sarah A. Mustillo. "Using predictions and marginal effects to compare groups in regression models for binary outcomes." *Sociological Methods & Research* 50, no. 3 (2021): 1284-1320.
- [63]. Khan, Mudassir, and Shakila Basheer. "Using Web Log Files the Comparative Study of Big Data with Map Reduce Technique." In 2020 International Conference on Intelligent Engineering and Management (ICIEM), pp. 97-103. IEEE, 2020.
- [64]. Hrastinski, Stefan. "A theory of online learning as online participation." *Computers & Education* 52, no. 1 (2009): 78-82.
- [65]. Sathish, E., G. Manikandan, and G. Bhuvanewari. "Design and development of multi controlled smart bike." *Materials Today: Proceedings* (2021).
- [66]. Khan, Mudassir, Aadarsh Malviya, and Mahtab Alam. "Map Reduce clustering in Incremental Big Data processing." *International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN* (2019): 2278-3075.
- [67]. C. Venkateswaran; M. Ramachandran; Vimala saravanan; T. Vennila " A Study on Artificial intelligence with Machine learning and Deep Learning Techniques", *Data Analytics and Artificial Intelligence*, 1(1), (2021):32-37.
- [68]. Muilenburg, Lin Y., and Zane L. Berge. "Student barriers to online learning: A factor analytic study." *Distance education* 26, no. 1 (2005): 29-48.
- [69]. Bhuvanewari, G., and G. Manikandan. "An intelligent intrusion detection system for secure wireless communication using IPSO and negative selection classifier." *Cluster Computing* 22, no. 5 (2019): 12429-12441.
- [70]. Pan, Yafeng, Giacomo Novembre, Bei Song, Xianchun Li, and Yi Hu. "Interpersonal synchronization of inferior frontal cortices tracks social interactive learning of a song." *Neuroimage* 183 (2018): 280-290.
- [71]. Glückler, Johannes. "Knowledge, networks and space: Connectivity and the problem of non-interactive learning." *Regional Studies* 47, no. 6 (2013): 880-894.
- [72]. C. Venkateswaran, D R Pallavi, M. Ramachandran, Vimala Saravanan, Vidhya Prasanth, "A Review on Promethee and Analytic Hierarchy Process with Its Application", *Data Analytics and Artificial Intelligence*, 2(1), (2022):34-39
- [73]. Westerlaken, Mirjam, Ingrid Christiaans-Dingelhoff, Renée M. Filius, Bas de Vries, Martine de Bruijne, and Marjel van Dam. "Blended learning for postgraduates; an interactive experience." *BMC medical education* 19, no. 1 (2019): 1-7.
- [74]. Chen, Chih-Ming, and Chia-Cheng Chang. "Mining learning social networks for cooperative learning with appropriate learning partners in a problem-based learning environment." *Interactive Learning Environments* 22, no. 1 (2014): 97-124.
- [75]. Marchiori, Davide, and Massimo Warglien. "Predicting human interactive learning by regret-driven neural networks." *Science* 319, no. 5866 (2008): 1111-1113.
- [76]. Miyake, Naomi, and Paul A. Kirschner. "The social and interactive dimensions of collaborative learning." (2014).