

Survey on the Factors Influences the Students' Academic Performance

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Abstract:

The academic achievement of students is influenced by various factors. This study investigated the literature review on the factors which affect the academic performance of college students. Enormous research has already done on the same. Different researchers investigated on various factors. Student academic performance and persistence are the two most commonly used college outcomes. Academic performance in under graduate level education may also be influenced peaks. The objective of this study is to investigate the factors influences academic performance in under graduate level education.

Keywords: Students Health, friend circle, Students performance, communication, learning facilities, proper guidance and family stress.

I. INTRODUCTION

The students' academic performance may be influenced by various external factors other than their personal characteristics. It very important to give the quality education for the progress of society, it has become mandatory to arrange for quality education to citizens. This study is being conducted to extract the factors which are important factors for the effective learning of students and influences their performance. Educational Data Mining (EDM) is an emerging multidisciplinary research area, in which methods and techniques for discovering data coming from various educational information systems have been developed. EDM is both a learning science, as well as a rich application area for data mining, due to the increasing the availability of educational data, EDM contributes to the study of how students learn, and the settings in which they learn [7].

II. SIGNIFICANCE

Focus of this paper is on different factors such class schedules, class size, class room environment, technology used in the class and exams systems, extracurricular activities, family and work activities, financial, and etc. These factors may helpful for both college's policy makers and parents of the students. It helps the college administration to design and implement the policies to increase the students success rate and change learning attitude by providing the quality education to students, facilitating students and improving the teaching procedures. Parents can use the outcomes of the study to solve the students' problems. It may also create awareness among students about their rights and responsibilities to achieve quality education[9].

III. CONTRIBUTION

Lot of research is been happening on this topic. Researchers identified on various the factors and a lot of different variables were studied. Contribution to this study is by exploring the factors that affect students' academic performance. Rigorous research is been taking place on identifying factors. Here factors are identified as two categories those factors are Non-Academic and Academic Factors students. This research will assist for the colleges, parents as well as the teachersto guide them properly as per their abilities.

Non-Academics Factors like, background,parent factor,academic goals are nothing but Level of commitment to improve the performance, self-motivation to achieve success. Academic-related skills like Time management skills, study skills, and study habits like taking notes, meeting deadlines, using information resources).Social involvement Scope to which a student feels connected to the college environment, peers, faculty, and others in college, and is involved in campus activities. Academic Factors like college environment, class room environment, teacher factors.

IV. OBJECTIVES

The objective of this research paper is to explorefactors that influence the academic performance of under graduate students and identifying the unfocused major factors.

V. LITRETURE REVIEW

Many researchers have been identified and discussed the various factors that influence the student academic performance in their research. There are fundamentally two types of factors that influence the students' academic performance. These are academic(internal) and non-academic(external). Internal classroom factors includes students competence in the subject, class schedules, class size, class test results, learning facilities, Home-work, environment of

the class, complexity of the course material, teacher's role in the class, technology used in the class and exams systems. External Class-room factors include extracurricular activities, family problems, work and financial, social and other problems. Research studies shows that students' performance depends on many factors such as learning facilities, gender and age differences, etc. that can influence student performance found that the most important factor with positive effect on students' performance is student's competence in English. If the students have strong communication skills and have strong grip on English, it increases the performance.[11]

Student performance in academic activities is a highly difficult subject. Research has been done on the same area and covered many factors. Different researchers researched on various factors were studied. Many studies have been undertaken to determine students' academic performance in the university. Most of these studies were conducted in various places. Various studies highlights many factors are plays dependency role in student academic success, the factors like student family background, parent education, and students effort etc are influence the student's success.

Factors like student ability/ aptitude, thought processes, note-taking, test-taking and study skills, the complexity of the subject is evident by surveying the voluminous educational research on the subject [1].

By the literature survey student's regularity and punctuality of teachers and graduation marks of the students are found to be significant by both techniques. Thus, without any hesitation, it can be concluded that these two indicators are important in enhancing the academic performance of students' performance age, income and hour are statistically significant, the impact of other factors may also on academic performance (Test Score) but it is not strongly significant therefore we should exclude from model [2].

Pakistan researchers carried out the research on this topic and it was conducted by AbidHussain in 2006 and he contributed to the research on finding four factors that affect students' academic. These factors are students' communication skills, learning facilities, proper guidance and family stress. This research will be helpful for the parents as well as the teachers of the students to guide them properly and as per their abilities[1].

Most research on both learning and teaching styles has neglected the concept of student effort. The opposite is true of academic studies related to student performance and effort[1].

Galit [3] gave a case study that use students data to analyze their learning behavior to predict the results and to warn students at risk before their final exams.

The result also reveals that age, gender, past academic track, medium of education and absence in the classes have also influenced the academic performances of a student. The study has covered the period of academic year Autumn-2013 to Spring-2014.[4]

Extant literature highlights a number of factors that affect students' characteristics and their environment, teacher characteristics and background, teaching style and materials[6]. In addition, academic performance is widely measured in terms of grades and test scores[5].

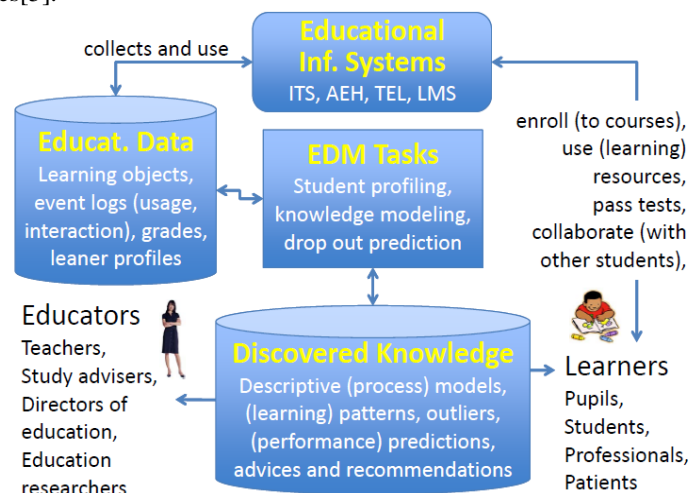


Figure 1: Educational data mining in a nutshell [5]

Figure 1 presents the basic setting of EDM having a few groups of stakeholders (learners, teachers, study advisers, directors of education, educational researchers) who can benefit from EDM in different ways. For instance, students can receive advice and recommendations about available courses, learning activities, resources, or tasks that are the most suitable w.r.t. their current knowledge and learning objectives; teachers can see how effective their learning material is, how well the students are doing on particular tasks, and how informative test assignments are; a study adviser can identify risk groups among the students; directors of education can see how the students actually study and what the bottlenecks are in the current curriculum. In either case it is expected that the mined knowledge can give a better insight, facilitate and enhance the educational processes and the learning as a whole. The educational data mining survey by Romero and Ventura [8] provides an elaborate overview of how different EDM stakeholders can benefit from mining various educational data sources, and The current mainstream EDM research is primarily focused on mining ITS and LMS logs. However, EDM in a wider perspective is aimed at helping to address problems related to different phases in the learning process, whether it is formal (e.g. tests) or informal (e.g. educational games), intentional (e.g. tutoring) or unexpected (e.g. using the social media).

Examples of particular problems include: How to (re)organize the classes, or assessment, or placement of materials based on usage and performance data. Identify the stakeholders get benefited from the provided feedback, study advice or other help. Help learners in finding and searching useful material, individually or in collaboration with peers.

Some other researchers used test results or previous year result since they are studying performance for the specific subject or year [10].

Karemera (2003) found that students' performance is considerably interconnected with satisfaction with academic environment and the facilities of library, computer lab and etc. in the institution. With regard to background variables, he found a positive effect of high school performance and school achievement he found no statistical evidence of significant association between family income level and academic performance of the student.[12]

Most of the research says intern of different category of factors influences the SAP (Students' academic performance). The category like student background, students' academic, parent, teacher, college environment, class environment, home environment etc.

Students background factors

Students' family income, students' mother's age and mother's education are significantly related with student performance". [13]. Students' family income, students' mother's age and mother's education are significantly related with student performance, Mother's education and student's family income were highly interconnected with the student academic performance.[14]

Student's grade in senior secondary exam, living location, medium of teaching, mothers qualification, fathers qualification, students other habit, family annual income and student's family status were highly correlated with the student academic performance. Bharadwaj and Pal, conducted study on the student performance based by selecting 300 students from 5 different degree college conducting BCA course of Dr.R.M.L. Awadh University.[15]

Sajadin et al conducted a research on analyze the relationships between student's behavioral and their success and to develop the development of student performance predictor by using Smooth Support Vector Machines (SSVM) classification and kernel k-means clustering techniques. They find out there is a strong relation between mental condition of student and their final academic performance.

Self-confidence students' confidence in own abilities and skills [16].Circumcision (11.1%), beliefs (50%), early marriage (5.6%) and family income (61.1%). Also, cultural constraints negatively impacts on achievement level among students. Children who come from insecure environments caused by socio-cultural practices such as cattle rustling, They lack concentration in class and confidence in whatever task they are given to do (Durojaiye, 1976).

Student academic/learning experience factor.

Class test, seminar and assignment, marks from the student's prior database, the hypothesis that was stated as Student's attitude towards attendance in class, hours spent in study on daily basis after college. [17]

Yadav and Pal obtained VBS University student's data like Branch, Category, Student grade in high school, Admission type, medium and family size. C4.5 is the best algorithm for predict student result.

Class test, seminar, attendance, lab practical's, R.ShanmugaPriya, conducted study on improving the student's performance using Educational Data Mining based by selecting 50 students from Hindustan College of Arts and science, Coimbatore, India.

Aptitude, motivation, and study habits. Student questionnaires may collect the following information: Gender, age, and language background (all usually collected on the front of the test booklet) Educational background, such as years at school and periods away from school Opportunities to attend school Expectations of success and personal or family attitudes about the value of school Perceptions of classroom environments, such as sense of safety, friendliness of other students, or support from teachers.

Student academic habits, Course curricula, and pedagogical techniques are identified as dependent factors [18]. General student survey results, as well as results analyzed by ethnicity and gender, are listed below. Results are grouped in seven major categories: student demographics, effect of class on student, and NAU, student opinion of course, and student awareness of academic status.

Parent factor:

According to the Reggio Emilia philosophy, parents are considered to be the "first teachers". parents are considered to be the "first teachers". The "second teachers" are classroom teachers; the "third teacher" is the environment. Parental involvement in a child's education should start at birth that should never stop. Education is a shared responsibility for parents and teachers. In 2009, countries and economies that participated in PISA were offered a questionnaire to be filled out by the parents of students who took the PISA test. The questionnaire sought information on, parents' background, such as educational achievement, occupation and income levels, home environment, including the number of siblings who live with the student taking the PISA test, the availability of reading resources, expenditure on educational services.[19]

Hijazi and Naqvi conducted a study on the student performance by selecting a sample of 300 students (225 males, 75 females) from a group of colleges affiliated to Punjab university of Pakistan. They stated that "Student's attitude towards attendance in class, hours spent in study on daily basis after college, students' family income, students' mother's age and mother's education are significantly related with student performance" was framed. By means of simple linear regression analysis, it was found that the factors like mother's education and student's family income were highly correlated with the student academic performance [20].

Nationality, gender, language, home environment, access to books, and family background, education of parents and language spoken at home, Parents Attitudes toward education, perceptions of the value and relevance of education, or perceptions of the quality of education. Attention to homework and study resources provided at home for children. Affordability and accessibility of education for children. Expectations of educational achievement for children. Involvement with schools, such as participation in the classroom or on committees. Financial support for school in the form of payment for textbooks and fees.

Teacher factor:

A quality teacher is one who has a positive effect on student learning and development through a combination of content mastery, command over academic skills, interactive skills. Quality teachers are life-long learners in their subject areas, teach with commitment, and are reflective upon their teaching practice, analytical skills, understanding of different learning styles and cultural influences, They set high anticipate and support students in achieving them. [21]

Wilson et al. (2001) suggest that even with the shortcomings of current teacher education and licensing, fully prepared and certified teaches are more successful with students than teachers without this preparation[22]. Teaching methodology, such as language of instruction, use of assessment, and style of teaching, satisfaction with working conditions, Relationship with the school community, such as interactions with parents, involvement in school committees, and participation in local community events, Faculty members encourage the students to seek knowledge from various sources, faculty members treat students gently and respectfully.

Faculty members welcome the students' questions; faculty members are keen to tell the students about their mistakes and to develop their knowledge and skills. Faculty should be committed to deliver of the lectures. [23].

Student-faculty interaction outside the classroom has been found to relate positively to the intellectual self-image and career goals of students and faculty-student contact outside the classroom has also been associated with positive outcomes [24].

The way teacher organizes the class room, or how teacher control the class room may yield positive or negative consequences for their students. If a teacher is demotivated or teachers negative thoughts will impact direct the students within the classroom. Similarly, if a teacher is motivated and positive they will likely have a beneficial impact on their students as well. It is important for a teacher to understand this cause and effect in order to understand how to organize their classroom to create a better learning environment.[26]

College environment

College environment play important role for students, teachers as well as parents. Some small private colleges provided the supportive initiatives for students, and have realized retention rates of around 95 percent for first-time, full-time students, and larger, they have been able to find ways to fill the gap between theory and execution by clearly defining the factors contributing to better retention and graduation and by engaging faculty, administrators, and students alike in a shared goal[25].

In order to increase the success rate, students need to be supported for both academically and socially. And they improved both areas. And they thought that early academic achievement is a predictor of future success. Keeping in that mind they have started launching first-year seminars, developed writing centers, established academic support centers, and experimented with peer tutoring. They also know that students who engage fully in the life of the institution succeed. So established learning communities, improved counseling, and established bridge programs that recognize the critical importance of a student's first year.[25] Apart from that important factors like lecture rooms, library, reference books, Canteen provides healthy/ nutritious food. Clean and hygienic wash rooms, etc also plays important role as factor for students.

Class environment

An ample amount of time spent by children is in the classroom. This place is where they will learn the various skills believed necessary to achieve success in the global society. The classroom is where they will gain an understanding of their place in the world and the gifts that they have to offer it [26]. This is the place where the student develops their future as well as knowledge. With the classroom being such an important place in the growth of a child it is important to understand the ways in which to affect this environment in order to receive maximum effectiveness in instruction. If colleges really do play important role in teaching the next generation how to be successful members of society then every precaution should be taken to make sure that the learning environment is one that helps students to succeed.[26].

Research studies on the classroom environment have revealed that physical arrangement plays a vital role in teaching learning process. It can affect the performance of both teachers and students[27].

Goethe found that weak students do better when grouped with other weak students. (As implied by Zajonc's analysis of older siblings (1976) it shows that Students' performance improves if they are with the students of their own kind. The first variable "attendance in class" explains student's attitude towards class, towards time management, number of hours spent for after college on daily bases, is taken as second variable.

Effective classroom management, which initiates with well-organized and efficient lesson planning preparation, helps a teacher to teach and students to learn. Students perform well in an optimistic classroom atmosphere and an environment in which they feel secure, safe, cared for and involved. From a student point of view, effective and successful classroom management provides students with opportunities to socialize while learning interesting content [28]. Classroom favorable environment has a significant positive effect on the academic achievement scores of secondary school students.[28].

Classroom environment is important environment in which teacher and learners are the main element windows, ventilations walls as well as other classroom equipment's like desks, chairs, mats, chalkboards, tack boards, easels, counters and computer equipment etc [29].

Home environment

A home is a place where place where they are groomed. This is the place for the students begin to learn the customs and values of the society. The family is a social unit in any society and it is the source of early stimulation and experience in Influence of Home Environment on Academic Performance of Secondary School Students [30].

The home influences the child at the most earliest possible time of his life at a time when his mind is most receptive. It provides the first impression which may last through the whole life of the child. The child often sees the parents, siblings and things in their immediate environment to be most significant and they are capable of promoting or diminishing him in self-worth and academic performance [31].

Diaz discovers that when learners homes are located in the noisy traffic, noisy sound of machine from industry and market; these affect negatively students' performance in under graduate School. So Diaz (2004) emphasized on the importance, establishment and influence of family educational climate that is encouraging for children[32].

The family, being a powerful influence on the child and its importance as a primary agent of socialization could enhance or hinder the academic achievement of the child depending on the social climate in the family. Emotional stability of students which is a pre-requisite to academic achievement[33]. This is because psychological problems are potential sources of trouble with learning.

In continuation, learner's home environment factors that influences their academic performances include: parental educational background, occupation, economic status, marital status and home location; family size and peer group. [34]

Parents are plays important role in child's course of growth. Parents are the most reliable and most security for child, parents are the early learning models, parents' criticism or praise can directly affect child's behavior and self-evaluation, the expectations of parents also affect child to establish long-term goal and short-term goals. Besides, family income and social status will directly impact on child's life quality.

Home locations have high correlation and significant influence on students' academic performance among the respondents of this study.

Friends circle

Friendships have positive effects on other measures of well-being, including social and overall happiness in college life. Research results suggest that the presence of equal friends and followers in class has a positive and significant effect on test scores in English, math, and Hebrew. However, the number of friends in the social network beyond the first circle of reciprocal friends has no effect at all on students. In addition, the presence of non-reciprocal friends in class has a negative effect on a student's learning outcomes. We find that these effects have interesting patterns of heterogeneity by gender, ability, and age of students [35].

High school students mainly live in family or school, their social relations mainly are family relations and friends, their life circle is relatively simple. Our results show that 90% of students agree on friend is one of influential factor, its total number is second only to family, reflect that high school students general recognition to social relationship is the important influential factor on happiness. As grown up, student self-consciousness developed, independence strengthen also increased, the talk among friends increased with the decrease of family chat, and the heart-to-heart talk between friends play an important role to low their pressure, relieve worries, improve positive emotion. As one of important social relations, friends have effect on their sense of happiness and provide them with social support.

We find there is large different between family and friend, which effect on high school students' happiness, the influence of friend is far lower than the influence of family, and only 1.4% of students consider friend is the most influential factor. We consider social support provided by friends, mainly include spiritual encouragement, emotional comforts, spiritual aspects, but less material or economic aid, family is the mainly social support when adolescents face with some economic and life difficult. Maybe that is the main reason why the influence of friend on happiness is relatively less. In addition, Family relationship has remained relatively stable and firm, friend relationship is changing with moving to new environment or studying at new school, maybe that is one reason why the influences of friend is lower than the influence of family on happiness in high school students.

Demographic factor

Factors such gender, experience, and years teaching at a school influence how teachers perceive the culture and climate of the school, this would provide school administrators with additional insight in shaping a schools climate and culture..

Demographics and culture define culture as the set of values, beliefs, traditions, and rituals built over time. While this is themore commonly accepted definition of culture, we prefer ours because it distinguishes between two concepts that are closely intertwined: culture and climate [36].

VI. CONCLUSION

The outcome of this paper offers an important insight into factors that affects student's performance. The objectives of the study were achieved. The factors like student health, friends circle and student's home location, sleep, social network are not addressed in the educational data mining most of the papers. So these factors considered as limitations of the research paper and considered as future research.

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