**Slide1-**

Good Afternoon Everyone I am Daksh Dave-2018A3PS0391P and I would today be presenting to you my work on Bayesian Networks in E-Learning.

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(Abstract)

We all know that The Development in technology, internet, infrastructure and especially theses tough times have made E-Learning very popular. The introduction of E-Learning has instilled a curiosity in the minds of young and adult-learners and the possibilities it can help us achieve by breaking the traditional teaching methods.

By giving importance to the learning and behavioral patterns of a student which sadly a remote teacher may not be able to understand. The loopholes based in this industry gave rise to a new generation of systems known as adaptable learning systems. A part of which we would be exploring today

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Coming to the Introduction part

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The problem that we want to solve is The method of delivery of the teacher and compatibility of the student with that along with the student’s prior preparation and eagerness to learn along are difficult to gauge upon by an instructor in a remote setting.

The solution we propose for this model is With the help of Learning Analytics developed using a given student data. We determine variables that affect the student, teacher relationship and suggest reformative steps of action to the instructor.

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We have 3 objectives that we plan to achieve the 1st one Using a Bayesian Network to predict the success of an E-Learning model the 2nd one being Probabilityof conducting an online course and its Success. And the 3rd is Analyzingdifferent types of learning styles in the E-learning platform.

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Methodology Used

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We used Quantitative and Qualitative method for this research

In quantitative method we did a Survey

In Qualitative method we did a Litearture Review, Interviews, OpenEnded Surveys and Secondary Research

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The timeline of the report is as follows in the phase1 we did Literature Review and designed the Bayesian Network

In phase 2 we formulated the method of study

In phase 3 we floated a survey and gathered its responses

In the last phase We analyzed the findings and formulated the final report

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The Data was collected in 3 steps

In the 1st step- we picked 1 Electrical Electronics Department course ADVD for the study to be conducted upon.

In the 2nd step- For the students, the data was categorized and collected through floating a google form which had 4 main attributes

In the 3rd step- The sum and averages of all the questionnaire answers were computed to draw conclusions.

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Coming to the 2nd last part of this presentation that is the results of this study

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In th e 75 responses collected by us we found that the instructor used Mail as their primary communication platform and a majority of 56% respondents are satisfied with that.

From the next figure we found that a whopping 77% of the people are unhappy with the way the current course is progressing.

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The last part that is the conclusions.

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The Figure shows a correlation matrix which gives the confidence and the effect of 1 variable over another.

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The Study Highlights

Our final results was that the decision variable was most positively affected by amount of time spent by the Student in browsing the E-Learning Platform, the Primary Comm Platform, the Percentile Scored negatively affected by the Question Difficulty ,Take-Home Assignments, Reading Materials, Quiz Solutions.

Significant Discovery-

For running the course successfully the instructor must not put a lot of pressure on students by providing them with a lot of materials with deadlines. A more reformed approach would be to decrease the number of evaluative and materials provided. The main focus should not be on covering width but rather depth in that subject resulting in a better conceptual clarity to the students. Setting up a difficult paper just so that the student doesn’t get overconfident and is up to date with the course can backfire and be counter-productive an increase in the score of the student does increase his overall confidence which is showcased through his increased activity browsing the online portal. Getting sufficient time to cover backlog and revise the previous concepts is also important and a large number of evals makes it difficult for an average student to cope up with the course progression on missing one evaluative or a single class and makes the course more demanding.

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Areas of improvement or the Innovations that we can make to this is that initially We had assumed the input variables to be independent in the model, but we can make them interconnected and accordingly take the weights of one variable on another and find their interdependency relations.

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