

Analytics Report

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1. Introduction

This report has explored learner engagement patterns in an online course platform where the analysis has been done on the basis of a dataset which is based on an e-learning analytics project. The variables considered are Learner Age, Time Spent, Course Completion Status, and Quiz Performance. The main aim was to understand the main factors that influence successful course completion.

2. Objectives

The main objectives of this project are to identify different trends in learner engagement while also determining crucial relationships between the course outcomes and learner behaviour. This will also provide valuable recommendations for improving the course engagement.

3. Data overview

The dataset consists of 500 learner records where each of the records includes details of the age of the students, time spent on the course content, completion status of the course, quiz score and active days of them.

4. Key Findings

4.1 Descriptive statistics

Average Time Spent: 35 hours.

Median Quiz Score: 78%.

Completion Rate: 62% completed the course.

Age Distribution: Learners primarily aged between 18 and 45 years.

4.2 Time Spent vs. Quiz Score

Learners have been found who spend more time in course content can score higher marks in quizzes which indicate better and consistent engagement can lead to better learning outcomes.

4.2 Completion Rate by Active Days

Learners with higher active days show higher completion rates.

5. Discussion

The discussion reveals that the indicators of learner engagement, especially the time one spends on the platform and the number of days one is active, are vital determinants of learner success. The more often and the time spent, the more the learner will have a high completion rate and performance outcome. These results indicate that an approach that promotes frequent

communication and continued engagement may have an important impact on the effectiveness of general learning.

6. Recommendation

Platforms need to introduce automated reminders that will encourage the learner to participate regularly to increase the level of engagement. The introduction of micro-learning modules will be able to assist learners to be more time-efficient and maintain the use. Also, visual milestones and progress badges can help encourage the time investment of learners, strengthening the positive learning behaviours and prompting course completion.

7. Conclusion

In general, the engagement measures (time spent and active participation) have a high ability to predict the success of the learners and their completion of the course. The advantages of exploiting such understandings are better course design and the approach to supporting learners. Deterministic factors and individualized learning paths are the aspects that should be considered in the future analytical work aimed at even better results of the learners and retention.