



Analysis of Learning Management Systems

Andrew Davila

D294 Task 4



Introduction

Create a written presentation of your analysis of two learning management systems (e.g., Canvas, Blackboard, Brightspace, Thought Industries, etc.)

Presentation Outline

- Summary of Learning Management Systems
- Types of Data Each LMS Collects
- Learning Analytics Capabilities
- Which LMS would help optimize our learning and improve our analytics?



Identify and describe the two learning management systems

Moodle – Moodle is a free and open-source LMS. It is fully customizable by the user and offers a variety of plugins, such as NextCloud, Microsoft Office, and Google.

Schoology –Offers tools to create lessons, communicate with students, and offers various collaboration methods. Allow for the creation of online spaces and a professional learning community (PLC). The LMS also offers third-party integration such as Google and Dropbox. Schoology is offered in two packages, Basic (Free) and Enterprise.

Determine the types of data that each system collects

Moodle	Schoology
Recruitment	Staff Data
Course Completion	Enrollment
Course Participation	Demographics
Activity Completion	Program Data
Discussion Data	Climate Surveys
Health Data	Attendance

Determine the learning analytics capabilities

Moodle	Schoology
<p data-bbox="107 545 856 630">Machine Learning Models and Predictive Analytics</p> <ul data-bbox="107 686 865 751" style="list-style-type: none"><li data-bbox="107 686 865 751">• The Students at risk of dropping out model predicts students who are at risk of non-completion. <p data-bbox="107 797 304 824">Static Models</p> <ul data-bbox="107 834 865 1084" style="list-style-type: none"><li data-bbox="107 834 865 971">• The upcoming activities due model checks for activities with upcoming due dates and outputs to the user's calendar page. This model is static and only uses available data.<li data-bbox="107 980 865 1084">• The No teaching model informs site managers of which courses with an upcoming start date will not have teaching activity. This is also a static learning model <p data-bbox="107 1125 865 1222">Offers teachers and administrators course reports that break down competencies, logs, activities, participation, and student events.</p>	<p data-bbox="903 524 1276 560">AI-Assisted analytics</p> <ul data-bbox="903 618 1959 938" style="list-style-type: none"><li data-bbox="903 618 1959 683">• Dashboards that provide trends analysis with Descriptive, Predictive, and Actionable Data reporting.<li data-bbox="903 724 1959 938">• Uses AI to help assist with assessments and reporting:<ul data-bbox="982 764 1906 938" style="list-style-type: none"><li data-bbox="982 764 1245 792">• Adaptive quizzes<li data-bbox="982 800 1864 828">• Identifying student needs based on “similar student characteristics”<li data-bbox="982 836 1906 901">• AI-teaching assistants to answer questions during a lecture - based on questions and answers given in the past<li data-bbox="982 909 1780 938">• AI-grading assistance where AI provides grading suggestions



Which LMS would help optimize our learning and improve our analytics?

Based on the research data gathered, I would recommend Schoology LMS. The reasoning is that the platform offers more analytics choices such as **Descriptive** and **Predictive Analytics** aimed at providing **Actionable** feedback.

I like how the LMS allows for the creation of online spaces and a professional learning community (PLC). For the purpose of optimizing our learning, the **Predictive Analytics** feature paired with the trends analysis will enable us to improve our analytics capabilities by providing actionable and equitable data. This information would be shared with trainers, managers, and stakeholders assuming we have permission from the users.

Works Cited

Documentation. Analytics - MoodleDocs. (n.d.). Retrieved January 21, 2023, from <https://docs.moodle.org/401/en/Analytics>

Featured Resources. Powerschool.com. (n.d.). Retrieved January 21, 2023, from <https://www.powerschool.com/resources/>

