2022 and Beyond

Our learning is changing, the shift from classrooms to online teaching is well underway. To satisfy the student of the future, it’s become all the more imperative to understand and adapt to a student’s needs. In this new era of teacher-student engagement, predictor’s performance is in order to deliver personalized, improved, and customized learning solutions.

The backend for offering these services is self-evolving at a rapid pace, and is expected to be the crucial driver of this business transformation. Tata Elxsi brings you to the key aspects that are likely to allow the inorganic growth of the eLearning sector in 2022 and beyond.

Our technology experts share their perspectives and opportunities for each of these trends, along with their likely implications on the EdTech sector.

Data-driven Hyper-personalization

**Opportunities**

- **Strategic direction, context and delivery of teaching modules based on insights from data analytics**
- **Data-driven insights for continuous refinement of content and delivery**

**Implications**

- **Data-driven models derived from conventional exam oriented methods for student performance assessment**
- **Objective feedback on teaching based on data driven solutions**
- **Data-driven growth strategies tailored for various user groups across different geographical regions, economic strata, intellectual abilities**

Dynamic Adaptive Learning

**Opportunities**

- **Automated Intelligent Tutoring based on existing content**
- **Context delivery tailored for the dual needs**
- **Personalization for the individual student on his / her goals including performance factors, subject grouping ability, attention span**

**Implications**

- **The rapid learning environment will cater to a larger volume of students through extensive automation**
- **This in turn would help reduce the cost of education and increase the growth for tech firms**

Automated Content Management

**Opportunities**

- **Enable for Next-gen eLearning – Content mopped with exact curriculum and delivery**
- **Creating block based for personalization and adaptive learning**
- **The ability to create and deliver content by using off-the-cloor content that is already available, rather than creating new content**

**Implications**

- **Driving factor of Adaptive and personalized content**
- **Opportunities to use of content management, make optimum use of resources with extensive use of automation**

Immersive Data Visualization

**Opportunities**

- **Enhanced student performance for different aspects of the data through provide a visual perspective to the student, that allows for continuous correction**
- **Course content gets customized on the fly based on student’s learning outcomes**
- **Students can continually adapt to the learning process and go through assessment test**

**Implications**

- **Improved outcome – Grades, results and performance**
- **Better classification of student performance**

About Tata Elxsi

Tata Elxsi is the world’s leading provider of design and technology services across industries, including Automotive, Broadcast, Media, Communications, Healthcare, and Transportation. It is part of the Tata Sons Group. Tata Elxsi provides scalable, personalized and content-driven Design, Technology and content development solutions for the EdTech sector. By designing, developing and delivering innovative education solutions, Tata Elxsi is shaping the way content is delivered and learning experiences are designed. Tata Elxsi’s education services are offered through its operations in India, Europe, Latin America, Japan and Singapore, and to clients across multiple verticals. The company has a robust ecosystem of disruptive digital technologies such as Augmented Reality, Virtual Reality, Artificial Intelligence, Blockchain, Big Data, Internet of Things, Cloud Computing, Automated Insights, and Open Standards. Tata Elxsi is headquartered in Bangalore - India, Tata Elxsi has design studios and offices in India, UAE, SINGAPORE and APAC.

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