Customized learning experience on E-learning sites using AI 📖

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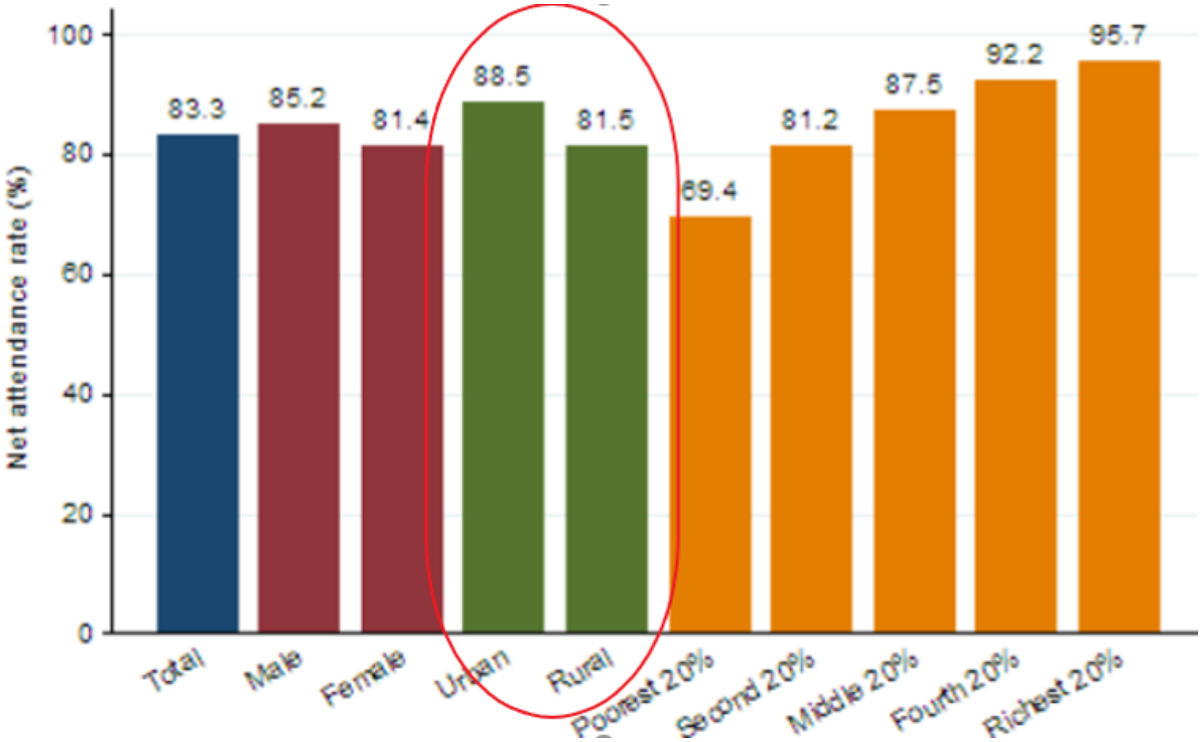
Abstract:

we all know, In India every citizen between the age of 6 to 14 years gets free and compulsory education. This provide ensure that every citizen of India should get education up to 14 years without any discrimination. But the reality is far complete different from expected situation

According to the statistics from internet the literacy rate in India is 77.7%. However, the literacy rate of Urban region is 87.7% whereas in rural areas it is only 73.5%. There might be many reasons behind the different between these two.



These are the few problems addressed below:

- Lack of availability of resources
- Lack of awareness of educational importance
- Less availability of schools
- Digital dividend
- Financial condition

Considering the first problem Lack of available resources, availability of material for every student is a bigger problem. Sometimes the text books are not available in proper quantity and condition or if available the content of the material if not enough to get the ultimate knowledge. Since Internet is almost accessible to every part of the world. So internet might

be a place where students can get there true ability. AI-based eLearning platform is one of them.

As AI-based eLearning platform has the potential to influence the future of eLearning and positively impact its development in diverse ways. so, in this paper an AI model is introduced which creates a learning platform that customs itself according to the student's level of understanding. This prototype not just reduces material cost and also helps institute to have a better analysis on students individually.

Market/Business Needs:

We will require inputs from the user like a sample testing quiz which would be completely optional but to give them a gist of where they stand with reference to the depth of the learning resource so the platform can provide resources optimally

We require dynamic content adjustment for new content of the updated content or for the course materials being updated it should be able to learn and adjust accordingly

Target Specifications:

Kind of Population we are really expecting are new audience or people who aren't familiar with the course materials or even if they are familiar the smart learning helps them with the content

References:

https://elearningindustry.com/artificial-intelligence-based-platform-impact-future-elearning

Benchmarking on Alternate products: There are not much products which embed smart AI/Ml Frameworks for this kind of learning so we can introduce novelty by duration time by which a candidate is able to complete a resource or learning

Estimating the depth of a resource by taking data points of how much time a candidate has taken it to complete or did he repeat to understand it better.

Business Opportunities: This Model Or Framework can be used by many Institutes if this is a very optimal and very efficient model since they can adopt smart learning so that every student gets a fair chance by their level of understanding.

We could charge a small subscription fee or one time purchase fee so that we can recover our maintenance or building charges.

Concept Generation: I was struck by this idea when I was going through a resource through a elearning platform and realized that all the materials were unorganized so I thought maybe I could implement a framework that could optimize the whole process of adaptive or smart learning

Concept Development: We could implement this algorithm and this would be a open source project or a patent which can be used by the institutes or the organizations so that they can use the framework with the permission or the subscription or a licence purchase. they can implement in their Framework to make it work. It will be like a plug and play software

Final Project Diagram: