Sustainable Education in India through Artificial Intelligence: Challenges and Opportunities

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Agenda

1. Understanding Educational Ecosystem

   Special focus on the Indian educational system

2. Artificial Intelligence

   Scope of Artificial Intelligence in Indian educational system

3. Challenges and Opportunities

   From Privacy and Security to Legal Frameworks

4. Conclusions

   Role of Market and Government
Introduction

Education in India has moved into massification phase

- Indian education has reached from elite to the phase of massification
- There are innumerable challenges because of this massification

Sustainable solutions for emerging challenges

- Emerging challenges due to massification needs sustainable approach
- India being developing country needs sustainability as key perspective

Artificial Intelligence driven sustainable interventions

- Role AI can play for the sustainable solutions of challenges emerging in Indian education system
- AI Interventions for resource efficient support
Overview of Indian Educational System

1. Recruitment
   - Higher student-teacher ratio and alleged unfair recruitments

2. Guidance & Counselling
   - No or less work-life balance amongst students

3. Examinations
   - Less smooth and discontinuous process

4. Quality Assurance
   - Lengthy process of monitoring and evaluation and less transparent

5. Teaching & Learning
   - Increase in strength and issues in choosing papers

6. Planning and Administration
   - Lack of efficiency and hierarchical decision making

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Scope of Artificial Intelligence: The Road to Future

Recruitment
- Improving performance of underperforming demographic regions through data analytics

Guidance and Counselling
- Predicting dropping out and suicides

Teaching and Learning
- Course recommender system

Finance, Planning and Administration
- Use of Application Programming Interfaces
- Use of sentiment analytics based polarity scorer

Examinations
- Use of Natural Language Processing

Accountability & Performance Monitoring
- Use of sentiment analytics based polarity scorer
Conclusions: Challenges & opportunities are similar to the other developing countries. Apart from market Governmental intervention and institutional framework is required.
Thanks for your attention!
Question?