Sustainable Education in India through Artificial Intelligence: Challenges and Opportunities

Shalini

National Institute of Educational Planning and Administration (NIEPA), New Delhi, India

Ankit Tewari

Polytechnic University of Cataluña (UPC) and University of Barcelona (UB), Barcelona, Spain



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
- Al Interventions for resource efficient support

Overview of Indian Educational System

Recruitment

Higher student-teacher ratio and alleged unfair recruitments

Guidance & Counselling

No or less work-life balance amongst students

Quality Assurance

Lengthy process of monitoring and evaluation and less transparent

6

Planning and Administration

Lack of efficiency and hierarchical decision making

3 Examinations

Less smooth and discontinuous process

Teaching & Learning

5

Increase in strength and issues in choosing papers

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 Named Entity Recognition tools

Examinations

Use of Natural Language Processing

Accountability & Performance Monitoring

Use of sentiment analytics based polarity scorer

Challenges, Opportunities & Conclusions



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?