OER Recommendations to Support Lifelong Learning

Reza Tavakoli    reza.tavakoli@tib.eu
Abdolali Faraji  abdolali.faraji@tib.eu
Dr. Gábor Kismihók  gabor.kismihok@tib.eu
Most Annoying Factors in Education Experience
Personalization of Learning

Our Education System

“Everybody is a genius. But if you judge a fish by its ability to climb a tree, it will live its whole life believing that it is stupid.”

-Albert Einstein
What are the new Responsibilities?
New Responsibilities

- Teaching Side
  - Guide in terms of
    - Educational Recommendation
    - Assessment Service

- Learning Side
  - Set and edit goals
  - Interact with the system
General Objective

Empower learners through open, personalised learning and curriculum recommendations, on the basis of labour market information and OERs.
Concept Overview

- Goal Setting
  - Skill Requirements
  - Labour Market
    - ESCO
    - Vacancy Announcements
- Learning Pathway Configuration
- Learning Content Delivery
  - Educational Curriculum
    - Learning Objectives
    - Curriculum Structure
  - Educational Content
    - Open Educational Resources
    - Institutional Content
- Learning Analytics (Evaluation)

Individual, Goal-Oriented, Dynamic, Curriculum Redesign
Research Challenges

- Dynamic nature of skill requirements
  - Mining job vacancies

- Topics that should be covered to achieve a skill
  - Extracting topics from educational resources
Research Challenges (Cont’d)

- Huge amount of educational content
  - Quality assurance
    - Metadata quality
    - Content quality
  - Extracting their properties
    - E.g. covered-topic

- Recommending educational content
Open, community based, AI-driven learning platform
Next Steps

- **Scalability through crowdsourcing**
  - Adding content (e.g. skills, topics, educational resources, questions)
  - Improving our intelligent models
    - Job-skill and skill-topic matching
    - Quality assurance
- **Capturing mental status of learners**
  - E.g. tiredness
- **Increasing the number users**
  - Evaluating and improving our tool
Thanks for your attention

Please visit our prototype at www.edoer.eu

OSCAR
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