Ontology-Based Recommender System of Online Courses

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Outline

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Introduction

- As there has been a huge increase in course content on the Internet.
- Finding the suitable course has become time-consuming.
- Therefore, we are proposing to use an ontology-based approach to recommends courses.

Purpose and Scope

- The purpose of our project is to enhance the efficiency and effectiveness of providing people with suitable recommendations.
- The recommender takes into consideration about the user's preferences.

Target Users

1. People who are interested in taking online courses.

What will they use it for?

To get the recommendation of courses according to their needs.

What sorts of relationships will they want to know about?

1. Which course are free or paid course?
2. Which courses are linked together ?
3. Which courses is highly rated ?
4. Which courses offer certificates and which does not ?

Competency Questions (providing a picture of our ontology scope)

1. Recommend top five rating courses which are free with certificates.
2. List some of the courses for learners who want a certificate after attending the course without having to do assignment, quiz and exam.
3. Mrs. B is working in an organisation and doesn't have time to attend online live courses on database management; recommend some courses for her which are not live session courses.
4. Mr. A is from a management background and he wants to learn some computer hardware related courses, ontology shall recommend some courses for him.
5. Mr. C is a new project manager in K-Bank, and he has to develop an information system for ATM machines. What are the courses that will help him to manage the project well?
6. Mrs. D wants to apply for a job and for that job she needs a leadership course certificate ,and the deadline of the job application is in 1 month. List some of the leadership courses with certificates that she can obtain within a month (45 hours).
7. Which is the highest rated course of Professor XYZ which is free of cost?
8. If I take the ABC course, what are some of the prerequisite courses that I need to attend?
9. List some of the advanced/recommended courses after completing a particular course.
10. Mrs. E has some budget limitation; recommend some courses which are below or equal to 100 Euro to her.

Final Competency Questions

1. Recommend top five rating courses which are free with certificates.
2. List some of the courses for learners who want a certificate after attending the course without having to do assignment, quiz and exam.
3. Mrs. B is working in an organisation and doesn't have time to attend online live courses on Data Scien; recommend some courses for her which are not live session courses.
4. Mr. A is from a management background and he wants to learn some computer networking related courses, ontology shall recommend some courses for him.
5. Mr. C is a new project manager in K-Bank, and he has to develop an information system for ATM machines. What are the courses that will help him to manage the project well?
6. Mrs. D wants to apply for a job and for that job she needs a Software Training course certificate ,and the deadline of the job application is in 1 month. List some of the Software Training courses with certificates that she can obtain within a month (45 hours).
7. Which is the highest rated course of Author XYZ which is free of cost?
8. If I take the ABC course, what are some of the prerequisite courses that I need to attend?
9. List some of the advanced/recommended courses after completing a particular course.
10. Mrs. E has some budget limitation; recommend some courses which are below or equal to 100 Euro to her.

Feedback and Suggestion

THANK YOU