

Development of a computational system to determine ESCO competences associated to training offers

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Summary: The business sector currently faces a challenge in linking a training offer (by its title, description or objectives) to the skills acquired at the time of its completion, which is a barrier in the process of choosing job offers by workers and selecting candidates by companies. In order to fight this, the European Union recently made available a database containing the multilingual taxonomy of European qualifications, competences and occupations (ESCO) which aims to be the fundamental reference for professional integration and mobility within Europe. Therefore, the objective of this dissertation is to develop a computational system capable of processing the training offers' information coming from UA microcredentials and courses' Pedagogical Dossiers (DPUCs) and to map them to ESCO competences.

Work done / results

- ❖ Write and prepare the first dissertation sketch
- ❖ Creation of a script for Bard roleplay in order to test most core use cases:
 - University Course Director (wants the ESCO competences for a specific course)
 - HR Representative (wants the ESCO competences for a specific job offer)
- ❖ Creation of another script to ask directly Bard for ESCO competences without querying the ESCO API in between

Future work / challenges

- ❖ Continue to write the dissertation
- ❖ Continue the tests with the LLM framework
- ❖ Test querying ESCO API after processing with LLM for different DPUCs and microcredentials
- ❖ Contact ESCO support in order to understand how competences are returned