

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

- ❖ Major advances in the state of the art, with still some details to be finished
- ❖ Searching for platforms that could be able to process a file containing every ESCO skill
- ❖ Creation of a parser to manage the spreadsheets containing the DPUCs
- ❖ Contacted ESCO support in order to understand how competences are returned

Future work / challenges

- ❖ Finish the state of the art and continue to write the dissertation
- ❖ Understand in what measure the context passed to the LLM influences its response to the query
- ❖ Continue to test querying ESCO API after processing with LLM for different DPUCs and microcredentials