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

- Better study of ESCO API - detail how it works and how competences are returned
- Decide which LLM framework will be used - should be free and open source
- Find a way to integrate the LLM programmatically with ESCO API

Future work / challenges

- Write the dissertation
- Do some tests with the LLM framework
- Test querying ESCO API after processing with LLM for different DPUCs and microcrendentials