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Using data from the labor market for analysis and education

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Education systems provide specialists of different levels and specialization for the labor market. However, in the modern dynamic world of artificial intelligence, pandemic, and remote work, the labor market evolves dramatically from year to year. Universities and colleges must keep track of these changes to adapt educational programs and manage the number of student slots offered for different specializations. Detailed demand statistics from the labor market is a good data source for analysis to gauge current needs and predict future demand. Usually, there is no single source of data about all vacancies and CVs. So, it is needed to collect, preprocess, analyze and visualize existing fragmented data. In this work, we study different raw data sources, their strong and weak points. A set of basic metrics is proposed to be derived from the data for analysis. Several types of roles are defined as primary users of the aimed system, their features and standard use-cases. The conceptual system design was proposed to fulfill the requirements of the task of labor market analysis. The evolutionary prototypes of the services are presented.

Summary

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