Using Online Vacancy and Job Applicants' Data to Study Skills Dynamics

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This paper finds that big data on vacancies and applications to an online job board can be a promising data source for studying skills dynamics, especially in countries where alternative sources are scarce. To show this, we develop a skills taxonomy, assess the characteristics of such online data, and employ natural language processing and machine-learning techniques. The empirical implementation uses data from the Uruguayan job board BuscoJobs, but can be replicated with similar data from other countries.

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