

Project Rationale:

Canada is known as an immigrant-friendly country and it has recently been active in seeking international workers to resolve its labor shortage problem. One crucial factor for interested potential candidates to consider is its job market. Searching for and analyzing the relevant data can give us insight into our career preparation. One of the go-to sites for this is Job Bank – the national job board of Canada. The data on the site is less commercialized and assumed to be more reliable. Although the site provides some trend analysis tools and simple wage reports, there is no wage comparison tool specially for a particular career, such as information technology. Thus, this project attempts to create such comparison tool using the data presented on the site.

Tools:

This project will use Python as the main programming language to create a web scrapper for obtaining the data, make a comparison of the wage data of the tech-related career in Canada and generate Excel and PDF reports. The main Python libraries used are: requests, BeautifulSoup, FPDF and pandas.

Limitation 01:

Websites are in active development. Web scrappers will fail when the structure on the page they are designed to scrape changes. As such, constant maintenance is required.

Solution 01:

Adopt Continuous integration (CI) to check the main functionalities of the web scrappers periodically (ref.: <https://realpython.com/python-continuous-integration/>)



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