

Web Scraping Indeed.com Ads in Palm Beach County for Key Web Development Skills - Phase II

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Overview

Different areas of the country require different primary web development skills. Palm Beach Code School (PBCS) focuses on the subset of skills that are most required for starting web development positions in specifically Palm Beach County.

Phase I (<https://github.com/bbrocker/SpringboardCapstone1PBCS.git>) of this project provided a process for automatically determining which key skills are in the highest percentage of Indeed.com want ads rather than having to manually reviewing them.

Phase II uses machine learning to determine if PBCS should continue to offer an introductory course to cover entry level positions , plus a more advanced course for higher level jobs.

Starting parameters (all adjustable):

Search location:

Initially set to within 25 miles of West Palm Beach

Jobs to be searched:

Web Developer or Web Programmer

Key skill list:

The list of skills to be searched for.

Results : Introductory Class

The web development jobs are divided into two clusters based on which skills they require. The clust1 column is sorted by which skills were required most often for that group of jobs.

	0	1	2	3	4	5	6	7	8	9	...	38	39	40	41	42	43	44	45	clust0	clust1
CSS	0	1	0	1	1	1	0	1	1	1	...	0	0	1	1	1	0	0	1	3	22
HTML	0	1	0	1	1	1	1	1	1	1	...	1	0	1	1	1	0	1	1	8	22
Javascript	1	1	0	0	1	1	0	1	1	1	...	0	0	1	1	0	1	0	1	6	19
JQuery	1	1	0	0	1	1	0	1	0	1	...	0	0	1	0	0	0	0	0	3	14
Mobile	0	1	0	1	1	1	0	1	0	0	...	1	1	1	0	0	0	0	0	5	13
Agile	0	0	0	0	0	0	0	1	1	0	...	0	0	1	0	0	0	0	0	5	8
PHP	0	1	1	0	1	0	1	1	0	0	...	0	0	0	1	1	1	1	1	12	7
WordPress	0	0	0	0	1	0	0	1	0	0	...	1	0	1	0	0	0	0	0	5	6
Node	0	0	0	0	0	1	0	1	1	0	...	0	0	1	0	0	0	0	0	1	5
Linux	0	1	0	0	0	0	0	0	0	0	...	0	0	1	0	1	0	0	0	3	4

Results : Advanced Class

[illegible]

Summary of results:

Palm Beach Code School should continue offering their current web development course primarily covering CSS, HTML, Javascript, JQuery, and PHP (perhaps adding Mobile, Agile, and Wordpress) for the entry-level ~50% of web jobs in Palm Beach County.

In addition, for the remaining ~50% of higher-level jobs, they should consider offering a more advanced course covering SQL, mySQL, Java, and Cloud based skills.