

Finding the Best Place to Open a New Juku Campus

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1 Introduction

Juku is a kind of private fee-paying school in Japan for children to learn subjects such as maths or English after their regular school hours. In Japan, entrance exams for private junior high schools (7th grade to 9th grade), high schools (10th grade to 12th grade) and universities are tough, especially for higher rank universities. Students study hard to pass these exams in jukus offering supplementary lessons to students as well as their schools.

I work for a juku where instructors teach maths and English to students from 5th grade to 12th grade. We have four campuses in Tokyo now, and we look for places to build new campuses because of the growing number of students. New campuses should be in similar areas to where we work as our business is going well now. In this context, we search for the best place to open a new campus in Tokyo by leveraging location data obtained on the web.

2 Data

We use venues information of Tokyo to find similar places to our campuses. To obtain the info, we firstly convert postal codes of Tokyo fetched from the Japan Post into the geographical coordinate by geocoding (fig. 1). The coordinates are the data for us to gather venues information by an API offered by Foursquare, a location platform service.

	zip_code	prefecture	city	area	lat	long
0	1020082	TOKYO TO	CHIYODA KU	ICHIBANCHO	35.7291	139.378
1	1010032	TOKYO TO	CHIYODA KU	IWAMOTOCHO	35.6956	139.775
2	1010047	TOKYO TO	CHIYODA KU	UCHIKANDA	35.691	139.767
3	1000011	TOKYO TO	CHIYODA KU	UCHISAIWAICHO	35.6694	139.755
4	1010044	TOKYO TO	CHIYODA KU	KAJICHO	35.6917	139.772
...
1029	1001102	TOKYO TO	MIYAKEJIMA MIYAKE MURA	IZU	31.9999	139.999
1030	1001213	TOKYO TO	MIYAKEJIMA MIYAKE MURA	OYAMA	35.7486	139.702
1031	1001622	TOKYO TO	HACHIJOJIMA HACHIJO MACHI	SUEYOSHI	35.6587	139.724
1032	1001623	TOKYO TO	HACHIJOJIMA HACHIJO MACHI	NAKANOGO	33.0659	139.814
1033	1001511	TOKYO TO	HACHIJOJIMA HACHIJO MACHI	ITSUNE	33.1188	139.803

1034 rows × 6 columns

Figure 1: Screen Shot of the geographical coordinate data.

- 3 Methodology
- 4 Result
- 5 Discussion