#### **AIBUILD PTY LTD**



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# Task Description

## **Description:**

Consider you are going to implement and design a school recommendation system for students in Australia.

## Requirements

- Write a web scraper to parse the information from schools
- Search the school that fits a student best according to multiple criteria, including but not limited to, the geolocation of the school and student, the student's gender, the score of the student

### Your task:

#### Task 1

Develop a web scraper that can navigate to Goodschools.com and collect data on <u>secondary schools</u> in <u>Victoria</u>.

- The information you need to collect should at least include the school name, postcode, geolocation, sector and academic results.
- Format and present this data in a CSV file containing information for at least 50 schools. (Not required to collect all schools in the list)

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- Write a document to briefly describe how you did this task, what tools and libraries you would use, and any potential challenges you foresee.
- Link: <u>https://www.goodschools.com.au/compare-schools/searc</u> h/in-victoria

#### Task 2

With provided CSV datasets of secondary schools in Western Australia:

- Analyze the datasets to determine criteria that could help match students with the best-fit school based on various factors, including geolocation.
- Develop a proof-of-concept prototype that employs these criteria to suggest schools to students, based on some general attributes from a student.
- Discuss your approach to researching and selecting these criteria, the methods and technologies you would use for the prototype, and how you would validate the effectiveness of your recommender system.
- Link to CSV file:
  - https://drive.google.com/file/d/1NJrSBY37OwqSQ50d1 gR3cTwwh6SanjJI/view?usp=drive\_link source: Kaggle

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