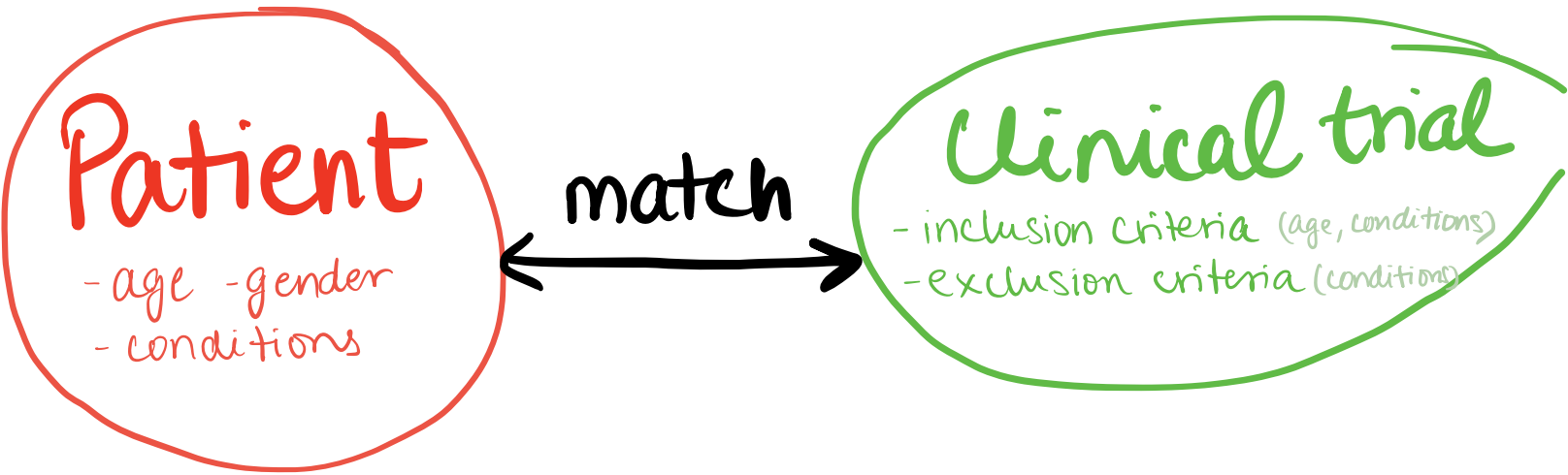


# Brainstorming Process

Task: Match eligible patients to clinical trials for which they qualify



① Extract useful attributes (age, gender, health conditions) from the patient JSON files

② The extracted attributes will then be checked against the clinical trial criteria to see if there is a match (patient is eligible to participate in trial)

① Inspect a couple of trial webpages to understand what the eligibility (inclusion/exclusion) criteria look like.

② Need to find a way to extract the keywords from the text on the webpages.

Keywords → age, diseases (inclusion & exclusion criteria)

Patient data : in JSON format  
standardized

↳ can be easily handled  
organized

Clinical trial : web pages (text)  
data non-standardized

need to research \* need to use some AI  
package which has  
modules to extract &  
parse bio-medical data

What tools can be used to achieve this?

\* python (pandas, BeautifulSoup, etc.)

\* MySQL

Results :

Patient

- age ✓
- conditions ✓
- no condition matching w/ exclusion criteria ✓

Trial

- actively recruiting ✓

match

Output

patient info + eligible trial  
info