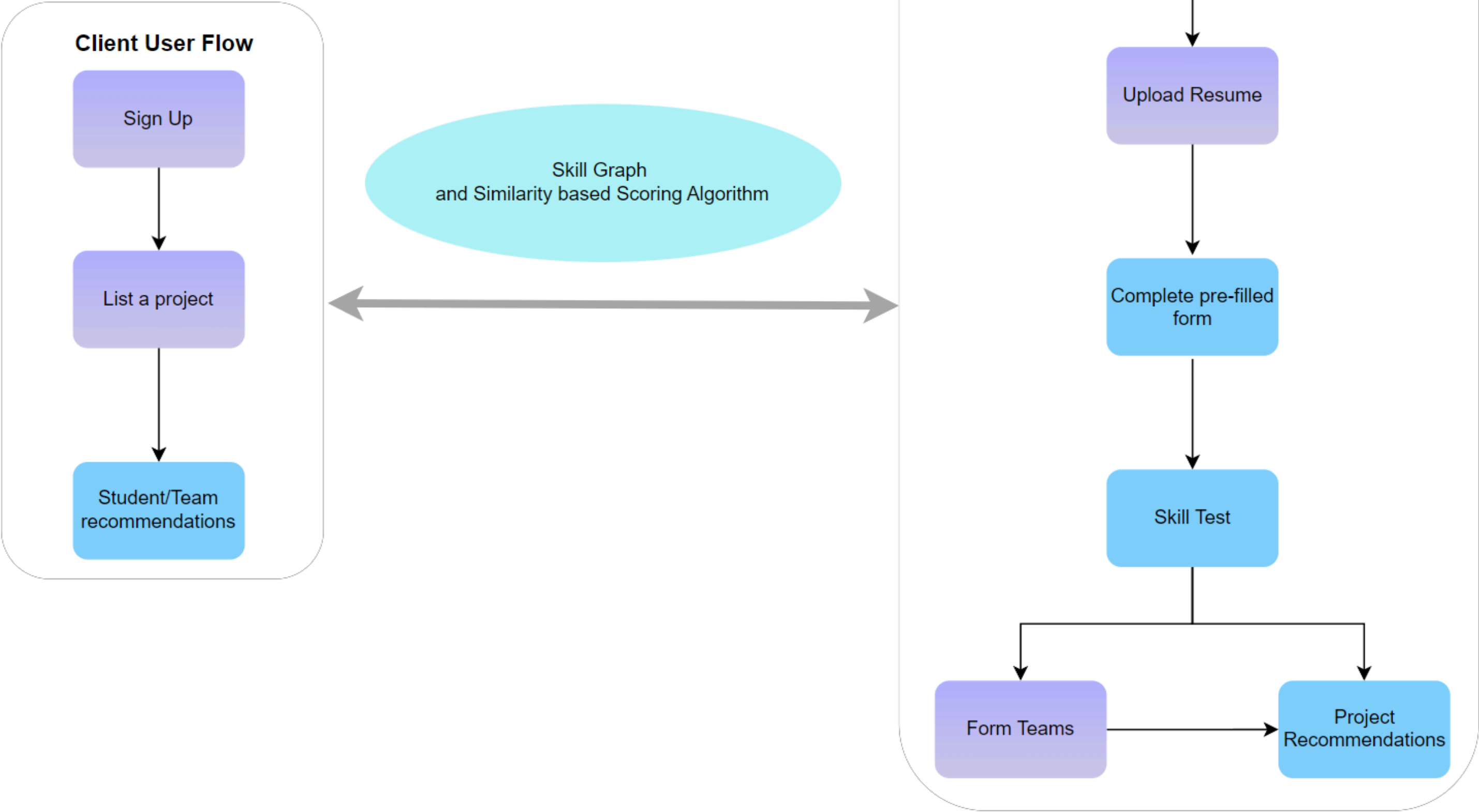


Supercharge Innovation

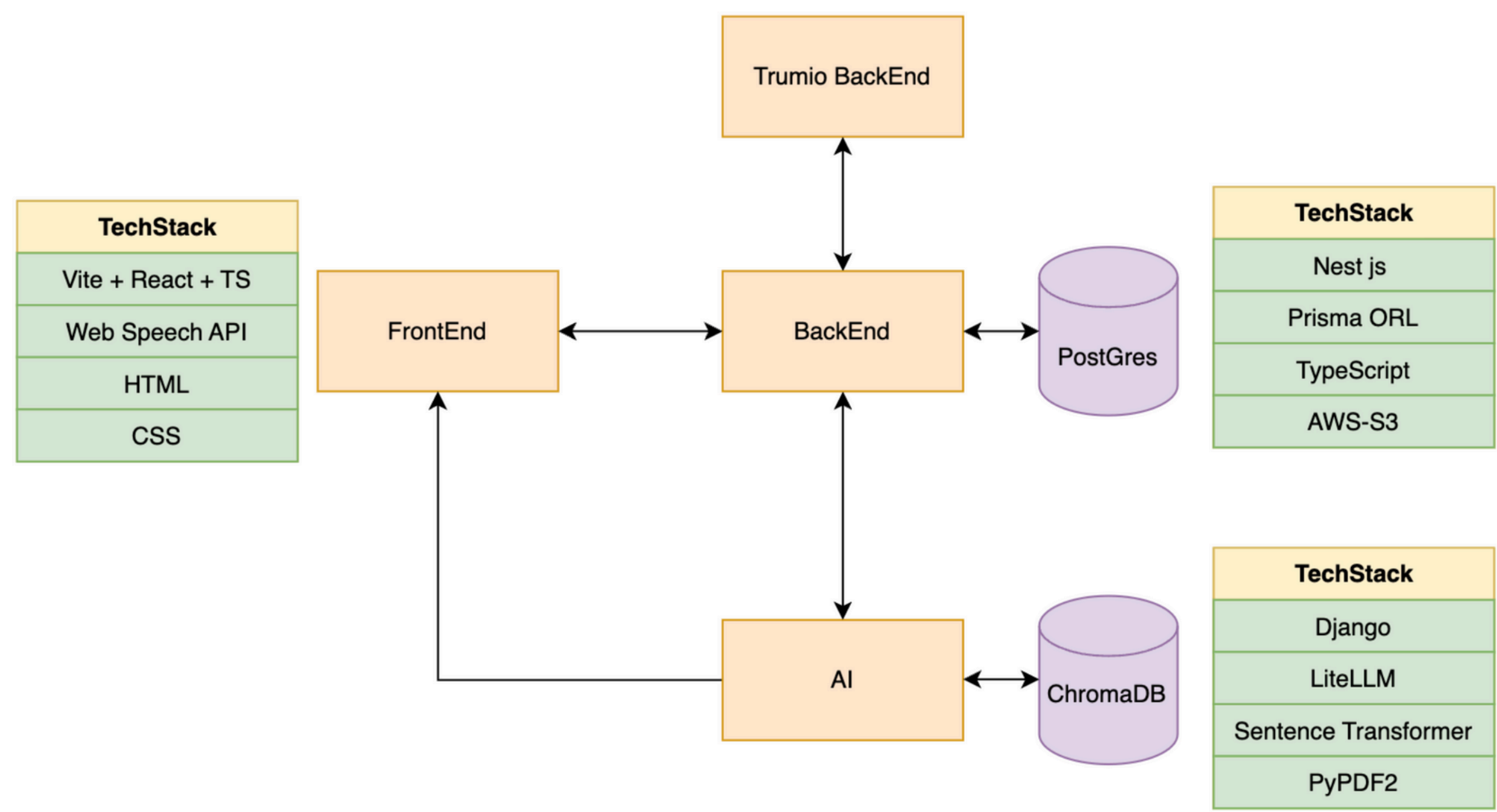
Powered by team31.



Overview



Architecture



truview: AI-powered Interview

Hello! To begin with, could you explain what RESTful APIs are and why they're important in backend development?

API are used for communication between different services on the web. Now with REST APIs i.e representational state transfer. With we do the basic CRUD operations by defining the request type i.e GET PUT UPDATE DELETE

Great explanation. How does ExpressJS fit into the development of RESTful APIs?

ExpressJS is a node framework used to make webserver

While it's true that ExpressJS is a framework used to make web servers, can you provide more detail on its features and how it benefits the development of RESTful APIs?

you can write functions to server the purpose namely handlers and you can attach them to a path and what setup the response object

Alright, you've touched on handlers and routing. Can you describe the differences between SQL and NoSQL databases, and give examples of each type?

This is what an ideal student conversation looks like!

truview: AI-powered Interview

Hi.

Hello! To kick things off, could you explain what Artificial Intelligence is, in your own words?

AI is a machine trying to mimick human's way of processing information.

That's a good start. Can you describe what Machine Learning is and how it relates to AI?

I am not sure, can you help me with this one ?

Absolutely, no problem. Machine Learning is a subset of AI that involves teaching computers to learn from data and improve their performance over time without being explicitly programmed for each task. To move on, could you explain what a neural network is?

I don't know that too

Thank you for your time and for participating in this interview. It seems there might be some areas in AI that you may want to study further, particularly around core concepts like neural networks. Best of luck with your learning journey! TERMINATE

The student here
refuses to answer.

Our Agent stops early!

truview: AI-powered Interview

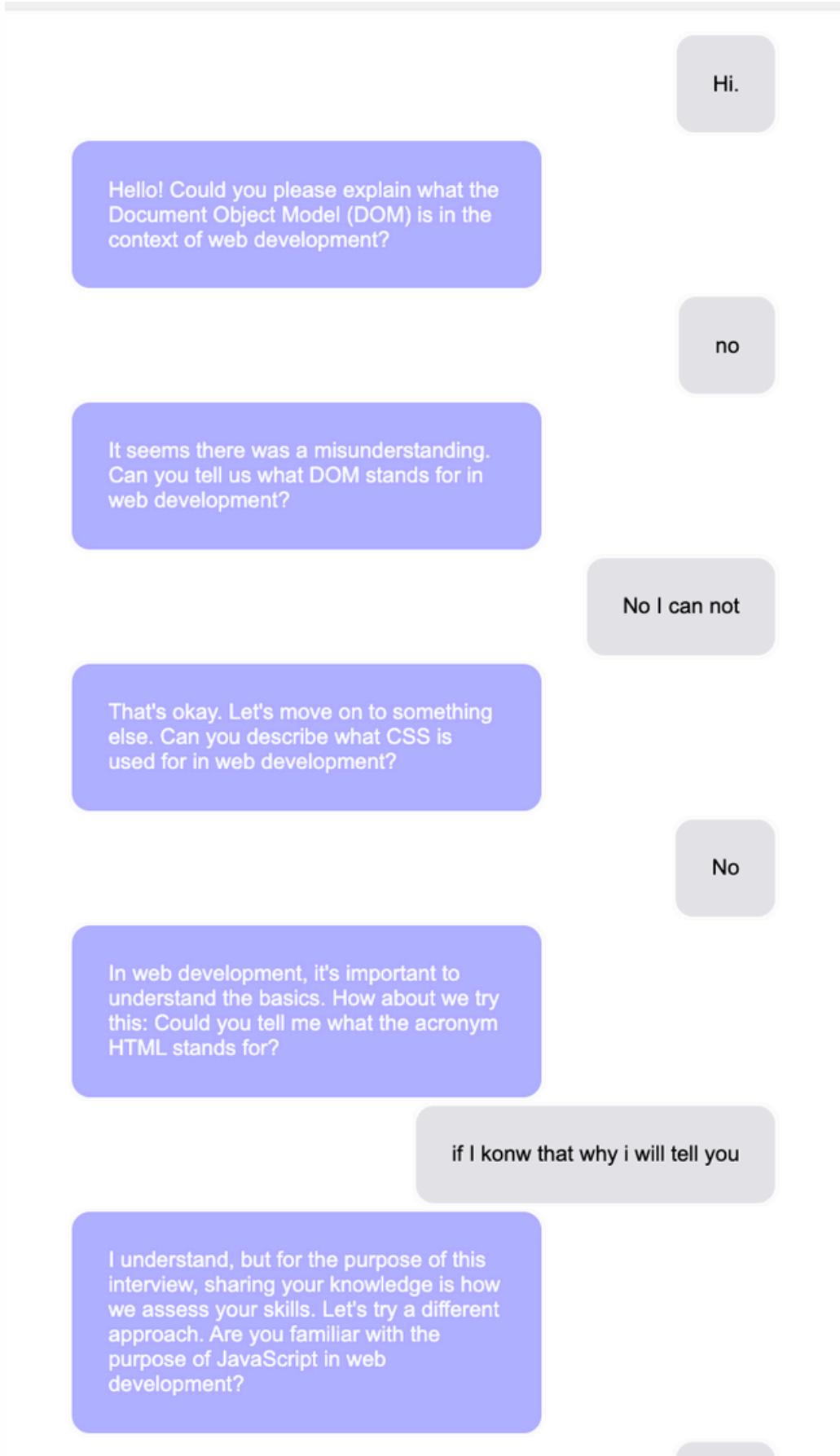
Adding new servers does play a part in scalability, but MongoDB has particular features designed for this purpose. Could you explain what sharding is in MongoDB and how it helps with the database scalability?

Vertical scaling by increasing the memory of the server. Horizontal scaling by adding new nodes

You've correctly identified the concepts of vertical and horizontal scaling. However, in the context of MongoDB, sharding refers to a specific type of horizontal scaling. Can you explain what a replication set is in MongoDB and how it contributes to the database's high availability?

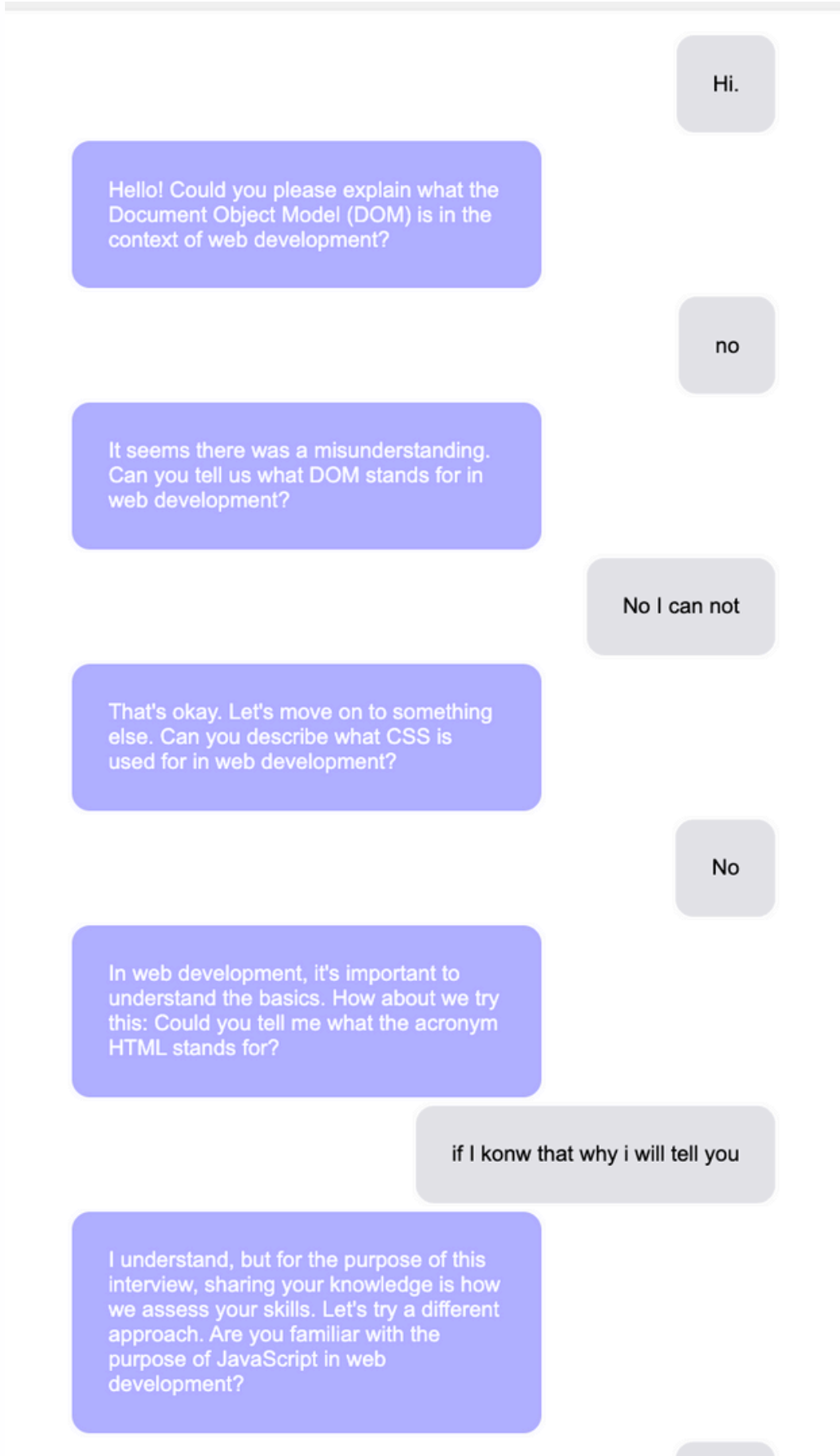
Interactive Learnings

truview: AI-powered Interview



Robust and Resilient

truview: AI-powered Interview



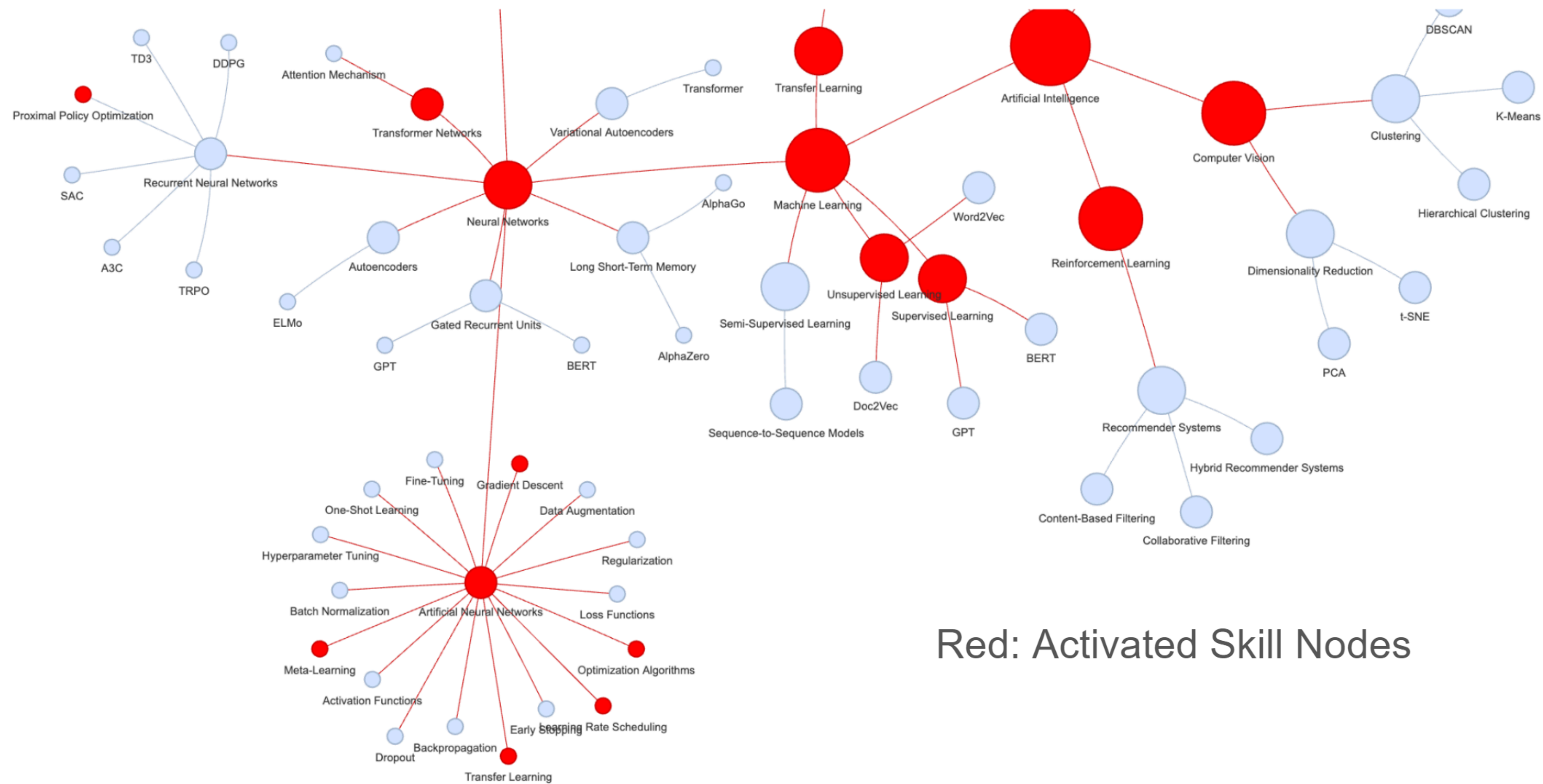
Robust and Resilient

truview: AI-powered Interview

Student	Hi
Interviewer Thoughts	The candidate greeted back, ready to engage in the interview.
Interviewer	Could you explain what Python list comprehensions are and give a basic example?
Student	List comprehensions are a one line for loop in Python. Example: [process(a) for a in all_a]
Interviewer Thoughts	The candidate has provided a correct and succinct description of a list comprehension with a valid example.
Analysis	Correctness: correct Skills: [Name: Python, Level: Novice]
Interviewer	Can you explain the difference between the terms 'deep copy' and 'shallow copy' in the context of Python data structures?
Student	Shallow copy when done on objects like lists and dictionaries will not copy the content objects. So it just copies the container. Deep copy ensures the container and the objects are copied recursively.
Interviewer Thoughts	The explanation provided by the candidate correctly differentiates between shallow copy and deep copy operations in Python.
Analysis	Correctness: correct Skills: [Name: Python, Level: Intermediate]

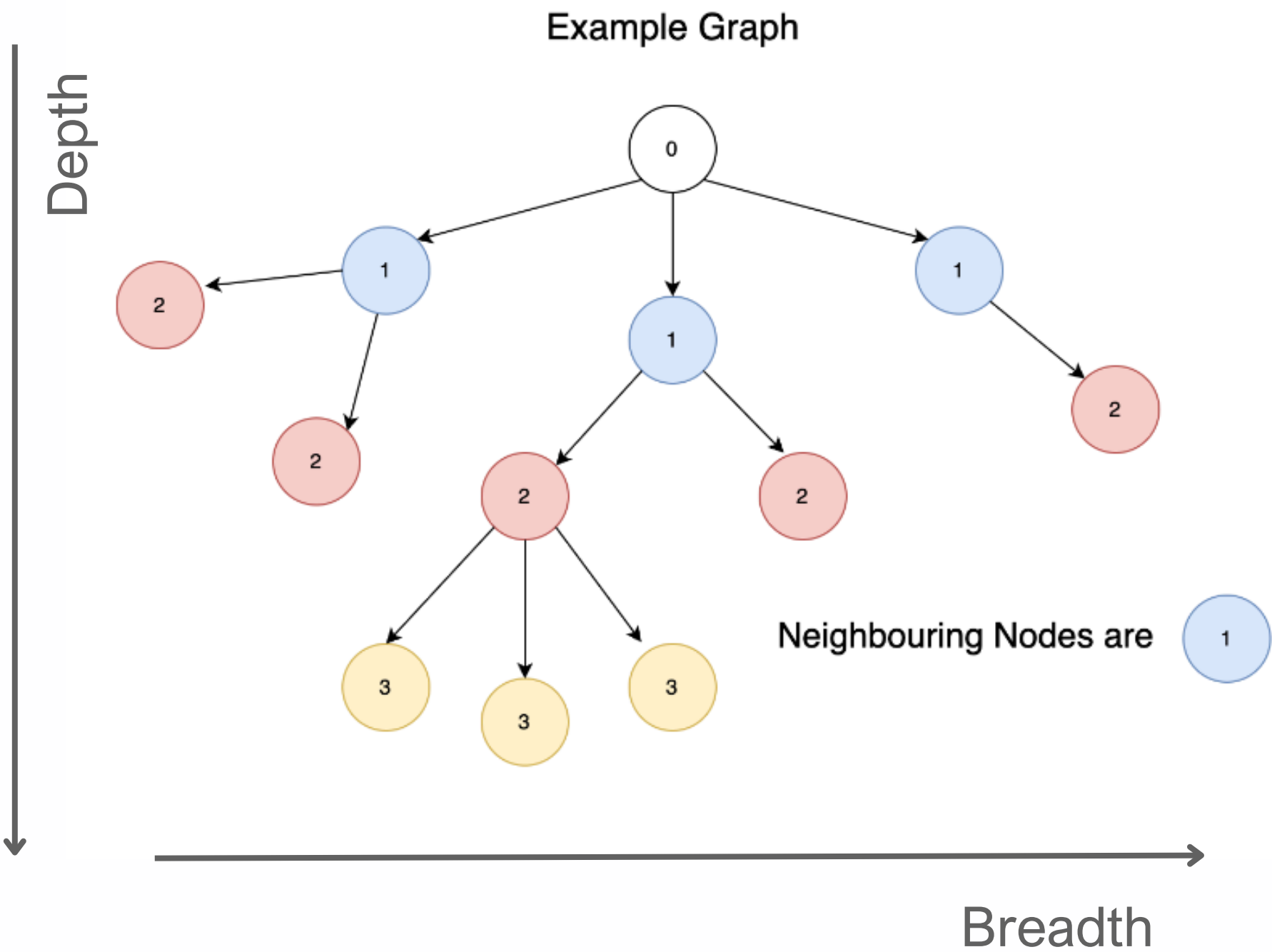
Deep dive
into hidden
internals!

Skill Graph - An Unbiased Student Skill Estimation Algo



Red: Activated Skill Nodes

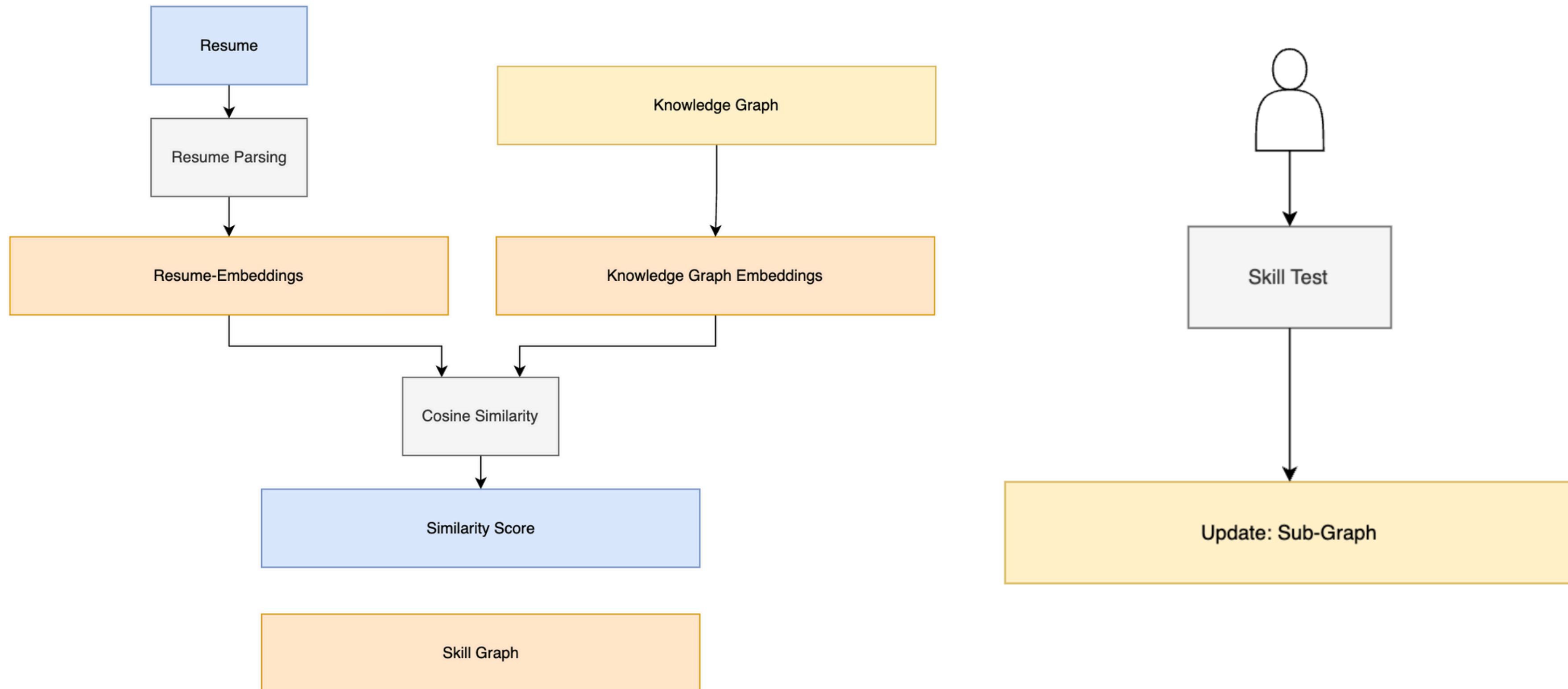
Skill Graph - Student Scoring



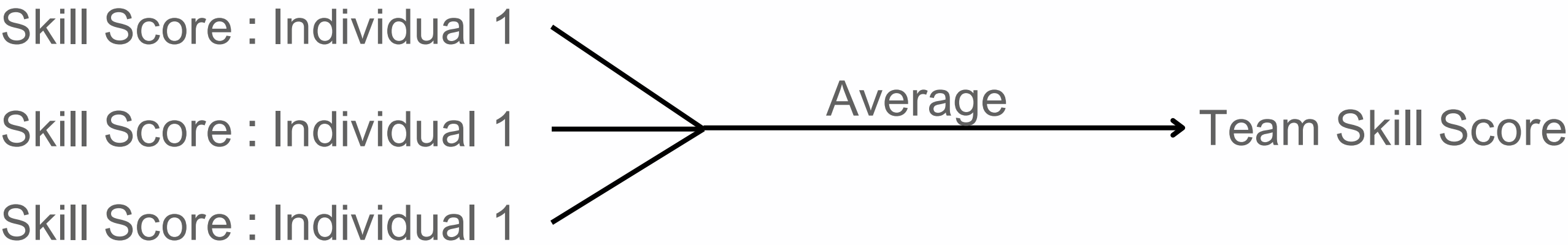
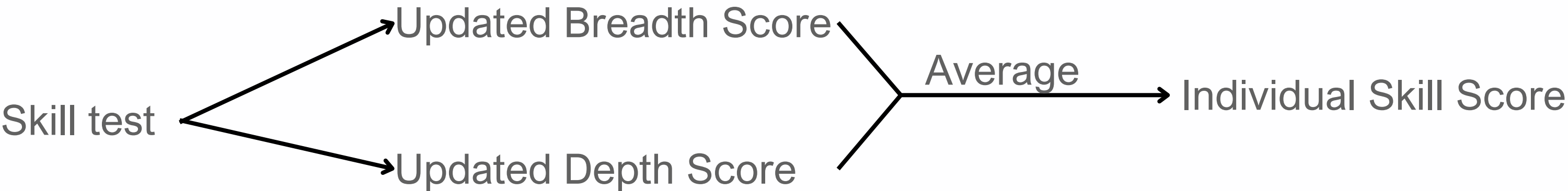
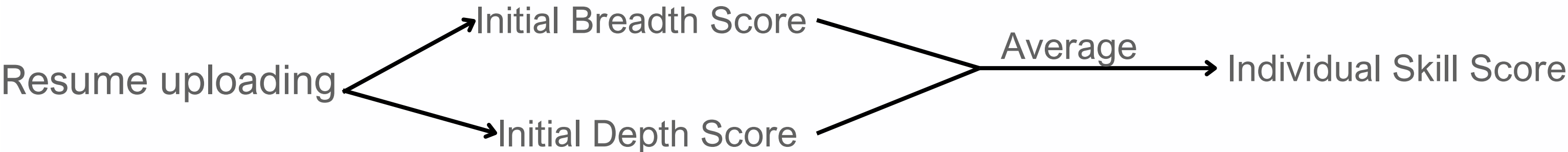
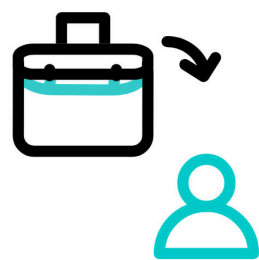
$$depth = \frac{\sum distance\ of\ skill\ graph\ nodes}{no.\ of\ skill\ graph\ nodes \cdot maximum\ depth\ of\ knowledge\ graph}$$

$$breadth = \frac{no.\ of\ immediate\ neighbours\ in\ skill\ graph}{no.\ of\ immediate\ neighbours\ in\ knowledge\ graph}$$

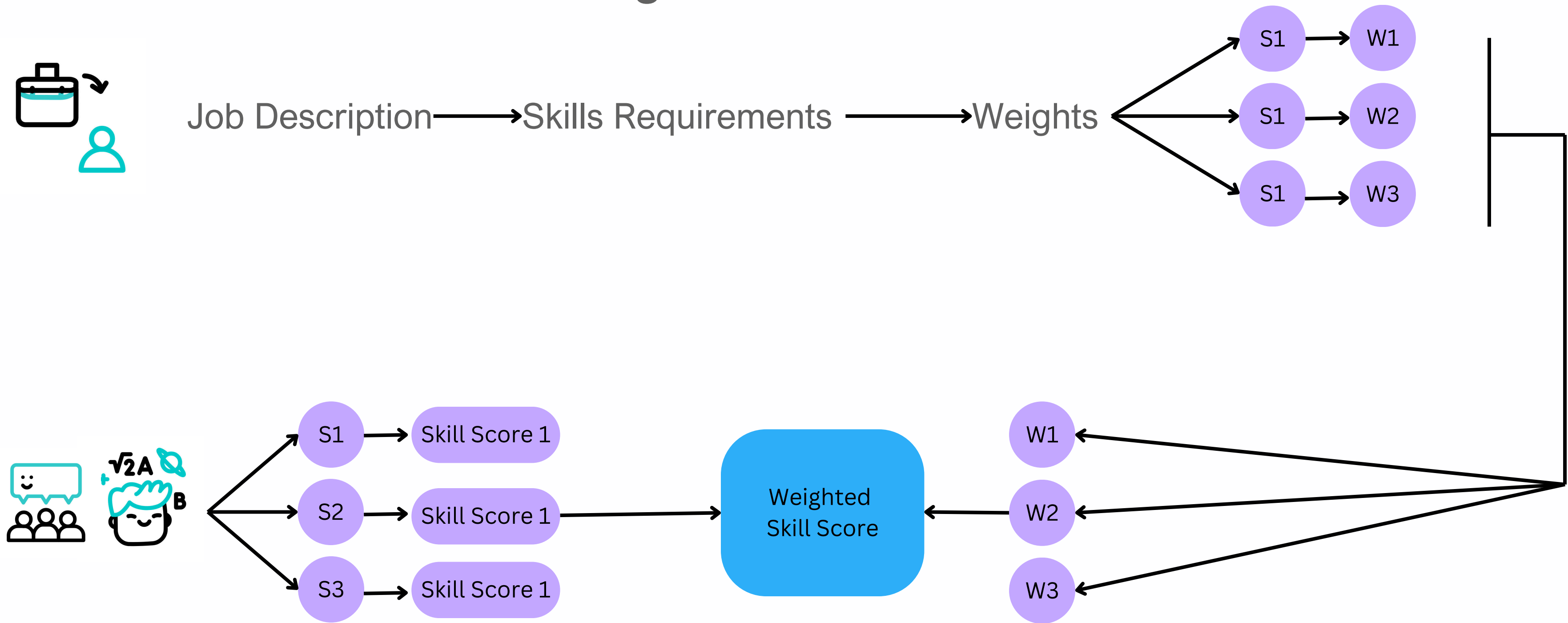
Skill Graph - Construction & Updation



Resume Parsing and Socials



Resume Parsing and Socials



Resume Parsing and Socials

