

UBS HACKATHON 2023

TECH SENSE

PROBLEM_03: EASY APPLY

Team Members:

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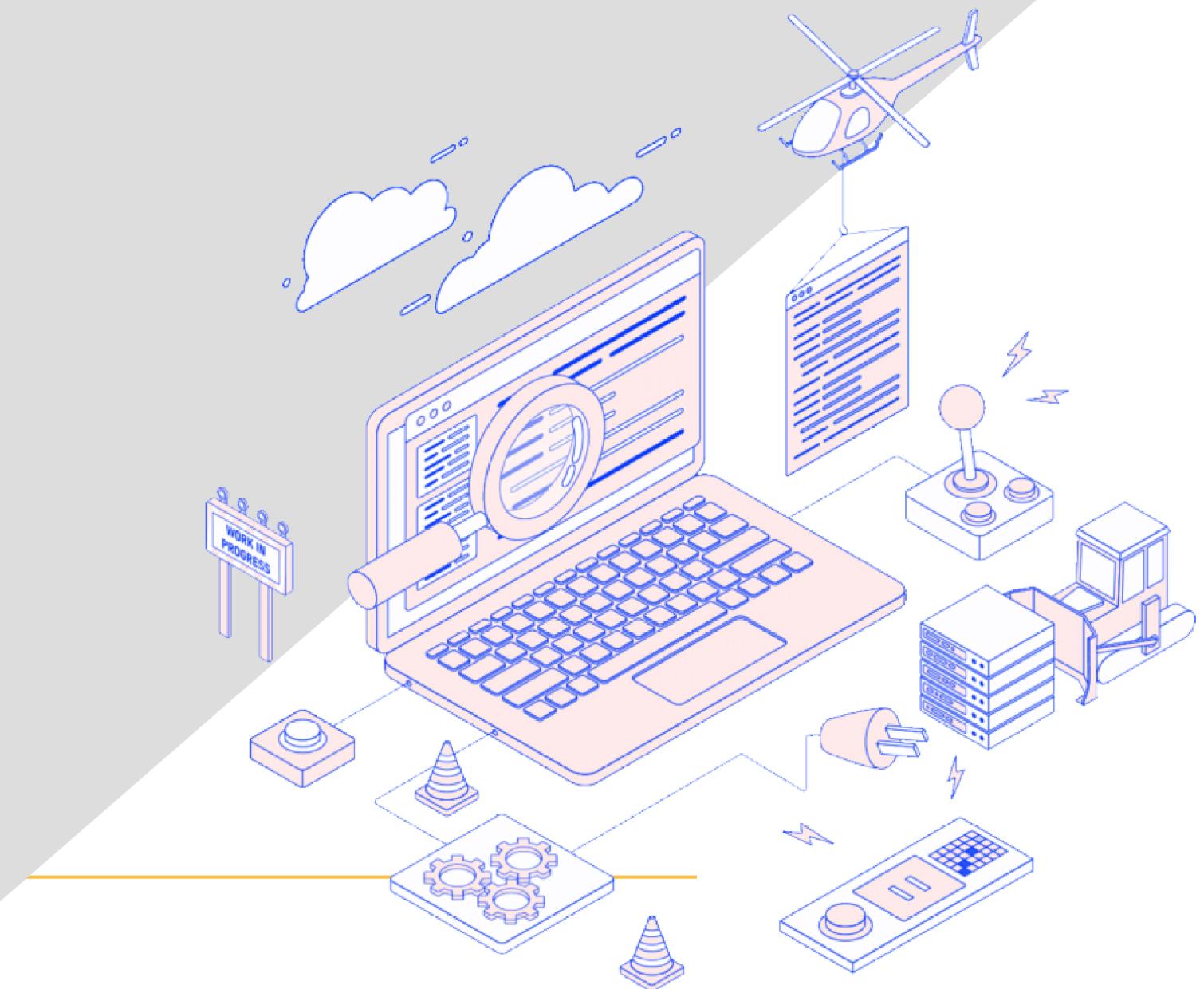
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Understanding Problem Statement:

- Difficulties in matching desirable skill sets.
- Huge turnaround time in manual screening..
- We need a solution to help the recruiting team to save time .
- Automatically email candidates .
- Easy Apply

TECHNOLOGY STACK:

- Python
- Machine learning
- MySQL
- Flask
- HTML,CSS,Js



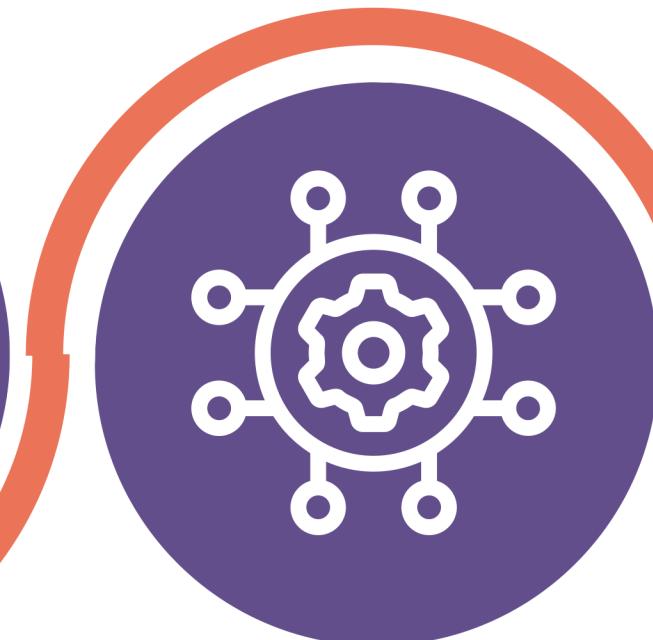
Road Map



Search and
creation of dataset



Data Cleaning and
Data analysis



Profile Matching
using FuzzyWuzzy
algorithm



Designing
User Interface



Backend and
Frontend Integration

The Solution We Provide:

Display
Candidates
profile
matched with
specific JD in
sorted order

Add new job
description and
find matched
profiles for that
job description

Automatically
sending mail
to matched
profiles

• Details of the Solution

The screenshot shows a web browser window titled "Tech Sense" with the URL "127.0.0.1:5000". The main heading is "Job Positions Open". Below it is a grid of eight job categories, each with an icon and a link:

- Software Engineer
- Project Manager
- Quality Engineer
- Data Analyst
- Marketing
- Full Stack Developer
- System Administrator
- Add new JD

The status bar at the bottom indicates "Activate Windows Go to Settings to activate Windows." The taskbar shows the date as 18-02-2023.

The screenshot shows a web browser window titled "Tech Sense - Job Portal Website" with the URL "127.0.0.1:5000/showprofiles". The main heading is "Matched profiles". Below it is a list of profiles with their matching percentages:

Profile	Matched Percentage
Akansha Singh	76%
parth M Patel	73%

The status bar at the bottom indicates "Activate Windows Go to Settings to activate Windows." The taskbar shows the date as 18-02-2023.

The screenshot shows a web browser window titled "JobEntry - Job Portal Website" with the URL "127.0.0.1:5000/addjd". The main heading is "ADD Job Description". Below it is a form titled "Apply For The Job" with fields for "Role Name" and "Job Description". A green button labeled "Add Role" is visible. The status bar at the bottom indicates "Activate Windows Go to Settings to activate Windows." The taskbar shows the date as 18-02-2023.

The screenshot shows a code editor with Python code in a file named "backend.py". The code defines a function "findsimilarityscore" that takes "job_desc" and "skillsdataset" as parameters. It uses fuzzy set ratio to find similarity scores between job descriptions and resumes, then adds these scores to a DataFrame and database. The code editor interface includes tabs for "app" and "backend".

```
def findsimilarityscore(job_desc,skillsdataset):  
    count=0  
    for i in skillsdataset['cleaned_resume']:  
  
        Resume = i.lower()  
        tuples_list = [max([(fuzz.token_set_ratio(job_desc, Resume))])]  
        # Unpack list of tuples into two for j in resume1st) for i in jd_1st  
        similarity_score, fuzzy_match = map(list, zip(*tuples_list))  
  
        # Create pandas DataFrame  
        df = pd.DataFrame({"Name":skillsdataset[0][count], "similarity score": similarity_score})  
        db.addsimilarityscore(skillsdataset[0][count],similarity_score[0])  
        count = count+1
```

The code editor also displays a table of results:

Name	similarity score
0 Akansha Singh	76
0 Akhil Bharat	68
0 Ami Jape	32
0 Aniket Nalawde	34
0 Anil Krishna Mogalaturthi	38

- Advantages

- Saves Time
- Speeds up the recruitment cycle
- Improves the quality of hire

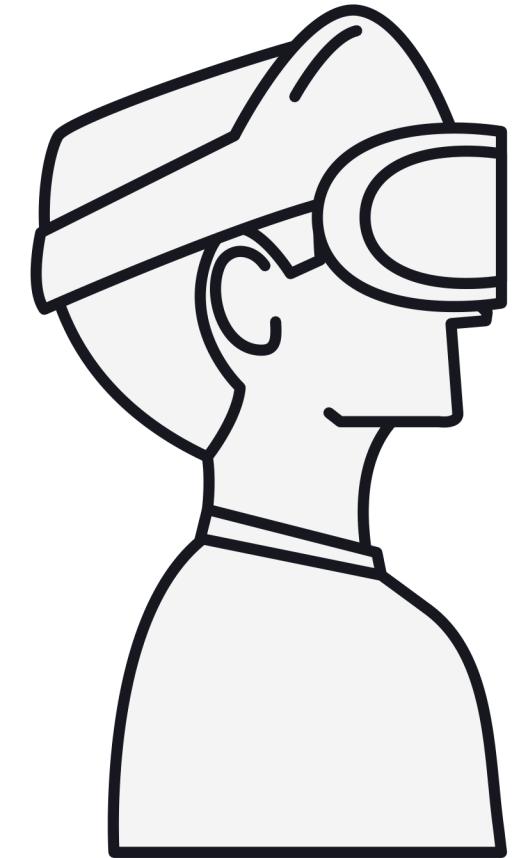
- Disadvantages

- False information on Profile.



Future Scope:

- **Reminder Email**
- **Using cloud services for data storage and API's**
- **Advanced keyword matching algorithm**
- **Prioritizing Candidates Based on their experience.**
- **Exclude the chosen candidates from the matching process.**



Lessons learned.

- Pair Programming
- Time management and task distribution among the team members
- Addressing unexpectedly arrived unknown challenges



Problems faced.

- Integration of csv and html
- Dataset Finding
- Finding appropriate algorithm to increase the accuracy.





Thank You