

PROJECT SCOPE

PROJECT TITLE: AI Recruiter Bot

CREATED BY: Hemlata Ahire, Deepali Joshi, Komal Alhate

Date of Creation: 17-JUN-20

PROJECT SCOPE DESCRIPTION

AI recruiter bot

simply, this involves Chatbot being able to execute tasks that are usually carried out by humans recruiters. This includes among other things, decision making, visual and vocal recognition, and translation and recommendation.

AI Recruiter bot is the chatbot designed using artificial intelligence to automate some part of the recruitment process into industry. In this advanced chatbot screening of the applicants is done by asking them some questions based on job title. By using different AI techniques to applicant's responses to the questions are monitored to approve their application toward next interview step.

PROJECT REQUIRMENTS

Functional Requirement

- **INPUT:** It will take first user details, Then a job title to be search based on the input given list of jobs will be displayed.
- **PROCESSING:**

Module	Technology used
Gathering user details	Natural Language Processing, data encryption
Job Search	Natural Language Processing, data processing
Job Application process	AI, Natural Language Processing
Screening of the candidate	Behavioural analysis,
Schedule interview and calls	Multifactor authentication,

- **OUTPUT:** Based on the inputs given the list of jobs will be displayed. Among them user can further proceed fro application and followed by the interview process.

PROJECT DELIVARABLE

It will be the AI, ML application which will helps industry recruiters as well as job seeker. If candidate made application to their dream job but he does not fullfill the skill and other requirment needed for applied post. then based on their previous answers job are recomended which are matching to applicant's skills,qualification and other abilities.

This additional feature is helpful for recruiter as well as job seeker. As recruiter will get appropriate candidate and candidate will get their profile matching job.

PROJECT REPORT

1. INTRODUCTION

1.1 Overview

AI Recruiter bot is the chatbot designed using artificial intelligence to automate some part of the recruitment process into industry. In this advanced chatbot screening of the applicants is done by asking them some questions based on job title. By using different AI techniques to applicant's responses to the questions are monitored to approve their application toward next interview step.

1.2 Purpose

The purpose of the AI Recruiter bot is to help industry recruiters as well as job seeker. If candidate made application to their dream job but they do not fulfill the skill and other requirement needed for applied post, then based on their previous answers to the recruiter bot, jobs are recommended which are matching to applicant's skills, qualification and other abilities.

This additional feature is helpful for recruiter as well as job seeker. As recruiter will get appropriate candidate and candidate will get their profile matching job.

2. LITERATURE SURVEY

2.1 Existing Problem

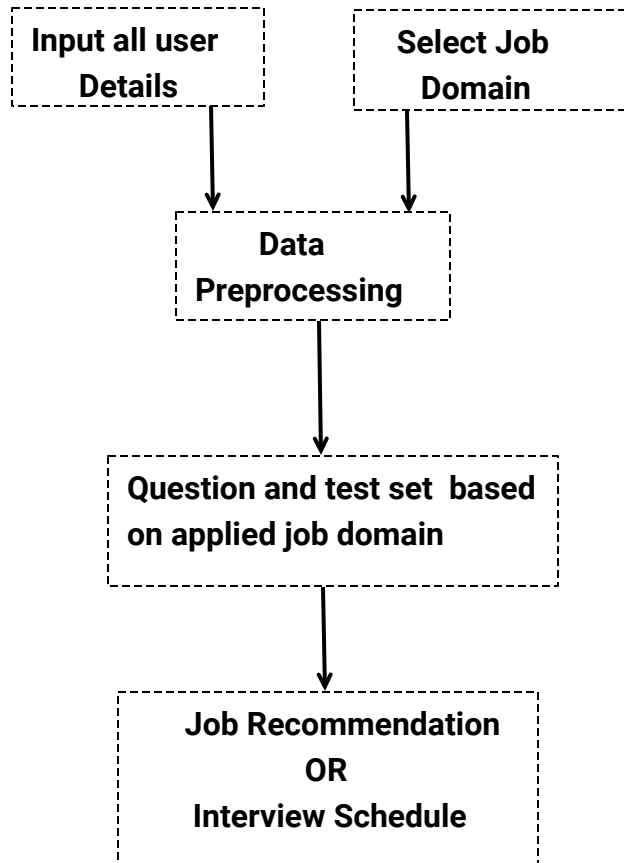
The constant pressure of hitting targets makes a recruiter's life stressful. Just the sheer number of resumes they need to screen to shortlist the first round of candidates is overwhelming! Add to that, the many trifling details they need to remember to get the initial rounds of interviews done and we know that what a lengthy and tiresome process it is. Using an interview bot takes the fuss out of recruitment and helps recruiters focus on shortlisting the final bunch and closing offers.

2.2 Proposed Solution

AI Recruiter bot is to help industry recruiters as well as job seeker. If candidate made application to their dream job but they does not fulfill the skill and other requirement needed for applied post, then based on their previous answers to the recruiter bot, jobs are recommended which are matching to applicant's skills, qualification and other abilities. This recruiter bot is helpful for recruiters as well as job seeker. As recruiter will get appropriate candidate and candidate will get their profile matching job.

3. THEORITICAL ANALYSIS

3.1 Block Diagram



3.2 Hardware / Software Designing

Hardware :

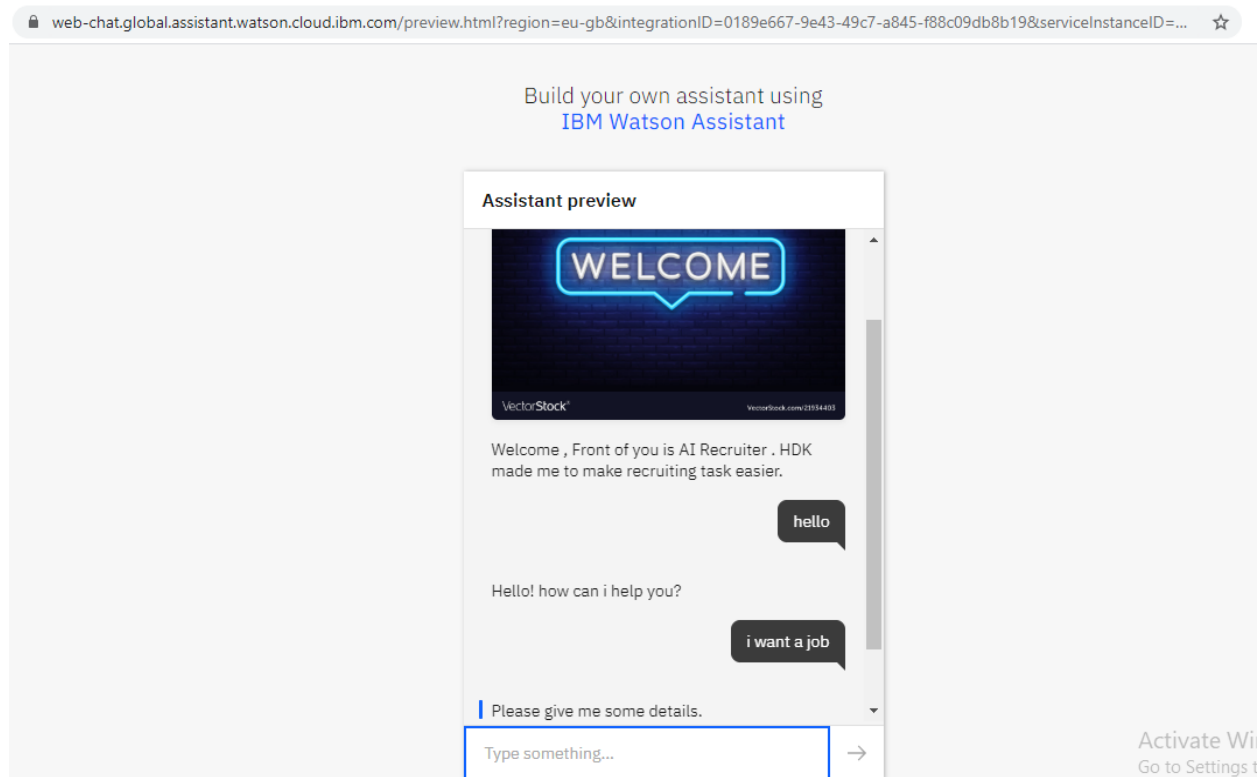
- Internal hardware devices include Motherboard,Hard-Drives,RAM.
- External hardware devices include Monitor,keyboard, mouse.

Software :

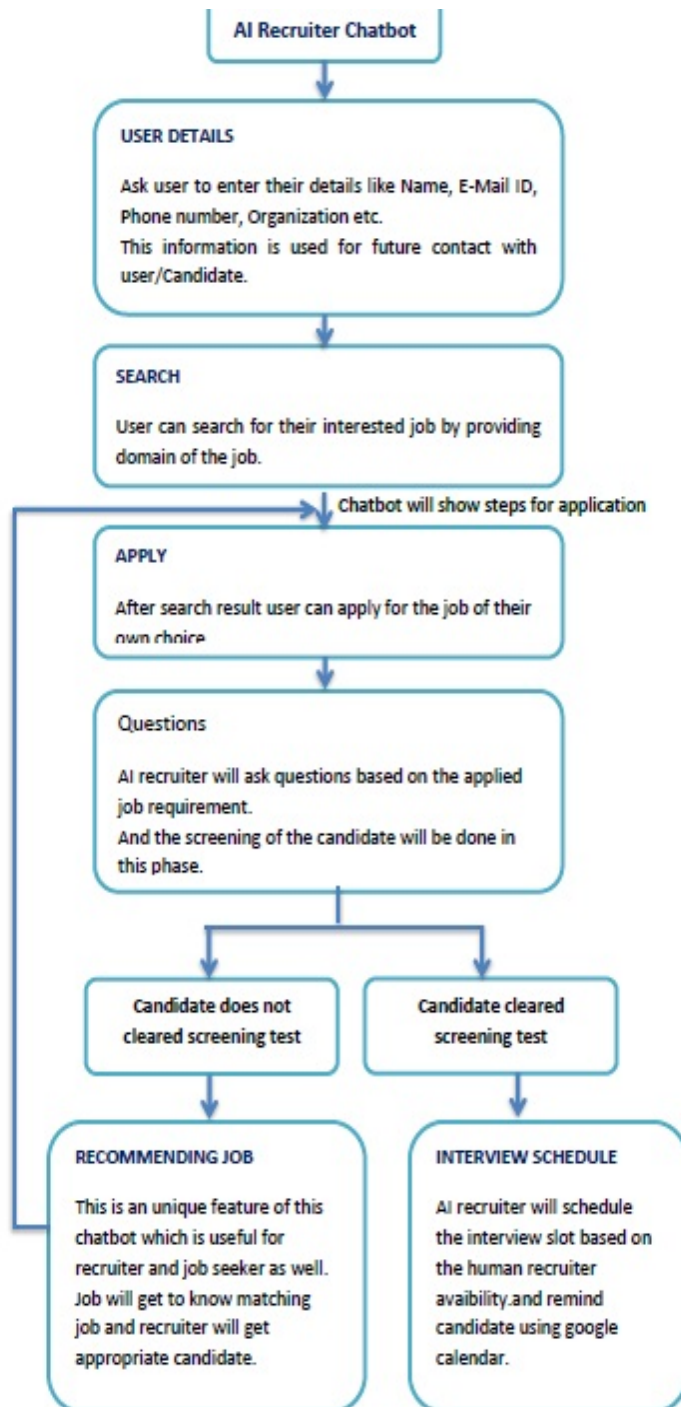
- IBM cloud Software :
 - Node-Red App[Webpage]
 - Watson Assistance Service

4. EXPERIMENTAL INVESTIGATIONS

This is the output of AI recruiter bot which will help to get the job.



5. FLOWCHART



6. RESULT

Based on the given data, the AI Recruiter Chatbot understands the data and cross reference the data to watch what are the factors that are affecting the results we require i.e Job Recommendation or Interview Schedule.

when we give all the input details and job domain, it gives the output based on previously given data. So the results we get are interview schedule if the given details matched with job profile otherwise we get recommended jobs based on input details.

7. ADVANTAGES AND DISADVANTAGES

Advantages

- Automate Tedious Manual Tasks.
- Better Experience for Candidates.
- An optimized **Recruitment** Process.
- Cost Effective Hiring.
- Reduced Time to Hire.

Disadvantages

- Applicants may not love interacting more with things like chatbots (recruitment bots) and the like. The lack of personal interaction may turn some people away.
- Even good AI-based screening systems have difficulty evaluating soft skills, which are crucial to many jobs. (It's not impossible, but it's harder to assess.) It's not simple for AI to assess cultural fit for the organization either.

8. APPLICATIONS

- AI Recruiter bot helps industry recruiters to hire appropriate candidates.
- It also helps candidates to get their profile matching job.

9.CONCLUSION

AI Recruiter bot simplifies job recruitment process. It helps recruiter to get appropriate candidate and also to candidate to get their profile matching job.

10. FUTURE SCOPE

Right from sitting through the resumes to answering initial queries of applications, chatbots can do all of it without the need of a human executive sitting in front of a computer. It can also determine if a particular candidate is well suited for the job opening at hand. Thereby saving a lot of time of the organization as well as the candidate. Chatbots help engage the candidates during the initial phase of the application. This ensures that the number of midway drop-outs reduces and the whole process is carried out seamlessly. Post the interview, there is usually a lot of uneasy silence between the recruiter and a candidate. Chatbots can help fill this gap by using a pre-screening process to make the entire activity extremely engaging and interactive.

11. BIBLIOGRAPHY

- https://www.ibm.com/cloud/architecture/tutorials/watson_conversation_support
- https://www.google.com/url?sa=t&source=web&rct=j&url=https://m.youtube.com/watch%3Fv%3DhitUOFNne14&ved=2ahUKEwiA1-Pi1ZzqAhVXeH0KHVFID1gQwqsBMA56BAglEA4&usg=AOvVaw1_mbouXjY6r-CU4jXVTgsi&cshid=1593078001299
- <https://www.google.com/url?sa=t&source=web&rct=j&url=https://m.youtube.com/watch%3Fv%3DO3silvVBaC8&ved=2ahUKEwjrz86X1pzqAhXVe30KHT0EALsQwqsBMBR6BAgKEBw&usg=AOvVaw1jsB8ZWQ7JC3flqmKaGPBK>

12. APPENDIX

Source Code

- <https://github.com/SmartPracticeschool/SBSPS-Challenge-1126-AI-Recruiter-bot>