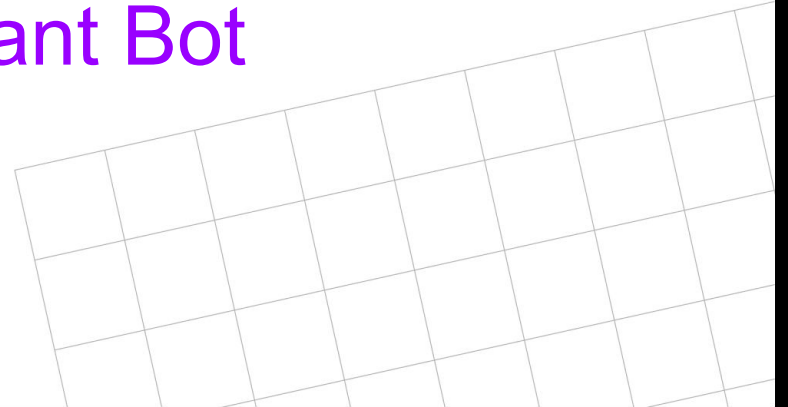# Cool Cyborgs

HR Mini Assistant Bot

Nithesh M (Team leader)

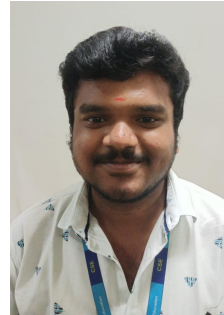Pre final year at KGISL Institute of Technology, BE CSE, Coimbatore, Tamil Nadu, INDIA. nitheshm1705@gmail.com

Nishanth Subramanian E

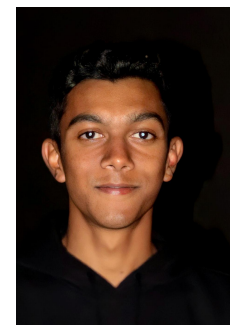Pre final year at KGISL Institute of Technology, BE CSE, Coimbatore, Tamil Nadu, INDIA. nishanth03subramanian@gmail.com

Mithelesh R

Pre final year at KGISL Institute of Technology, BE CSE, Coimbatore, Tamil Nadu, INDIA. mrmithil03@gmail.com

Jitheshwar HT

Pre final year at KGISL Institute of Technology, BE CSE, Coimbatore, Tamil Nadu, INDIA. jithesh.ht@gmail.com

PROBLEM STATEMENT

Problem:

The HR (Human Resources) is in charge and responsible for **managing the employee life cycle (i.e., recruiting, hiring, arranging interviews, onboarding new employees, training, and firing employees) and administering employee benefits** and making sure that everything from the first day to each subsequent day is navigated successfully.

Problem statement:

To develop a user-friendly bot which helps (Assist) HR to do their task(s) faster and in an efficient way, also ensuring that bot can be securely used by implementing Sign in process through 2 step verification. Additionally including voice assistant and multi language support.

Solution/Approach Details

Our Solution:

We will be developing a bot (HR Mini Assistant) which can help and assist HR to perform their task(s) more faster, easier and in a safer way. Also includes Voice Assistant and Multi Language support.

Tasks to be performed by HR Mini Assistant Bot:

1. Tasks / Events gathering and adding (Automating Google calendar).
2. Creating meetings for both personal and interviews through Google meet, Zoom, Webex, MS Teams.
3. Generate Appointment letter.
4. Generate Relieving letter.
5. Collecting data from resume.
6. Send bulk messages through WhatsApp.
7. Work on Google drive (create folder, Upload folder / file, Share file with the link).

What *HR Mini Assistant Bot* will do:

Signing in

Voice Support

Writing log file

Google calendar Automation
Collecting and Adding Task / Event

Generate Appointment Letter / Generate Relieving Letter

Sending message on WhatsApp
Sends bulk on web WhatsApp

Create Meeting personal / Interview
Creates meeting on Google meet. Zoom, Webex. MS Teams

Resume Screening
Screening resume data using Machine Learning

Working with Google drive
Uploads file or folder , Creates folder, Share files/folders with anyone

Tool | Technology | Theme

Tool and Technology:

RPA:
Robotic process automation (RPA) is **the use of computer software 'robots' to handle repetitive, rule-based digital tasks, it handles tedious, <u>manual digital tasks and transfers the work of a human worker to a "digital worker"</u>**.
RPA solutions save companies time and money while enhancing productivity by allowing associates to focus on mission-critical work.

UiPath:
UiPath is **a robotic process automation tool for large-scale end-to-end automation**.

Theme:

- ❖ Sustainability
- ❖ Diversity and Inclusion
- ❖ Reduce Carbon footprints
- ❖ Embrace change

HR Mini Assistant bot comes under the theme of sustainability. Since without compromising the needs of new future generation, while ensuring a balance between economic growth, environmental care, and social well being of the current gen.
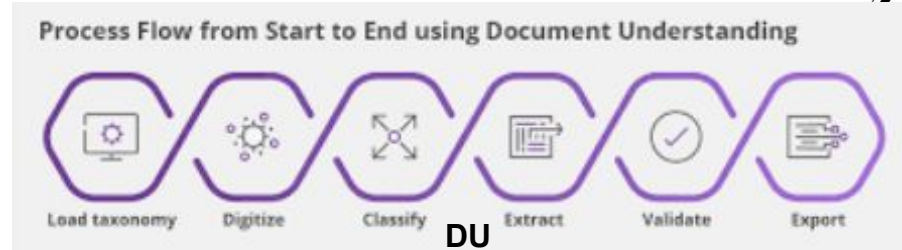
By using inbuilt ML modules for document understanding, our bot would analyse the skills and abilities of the candidate's resume without discrimination, thus helps in being inclusive among the diverse population.

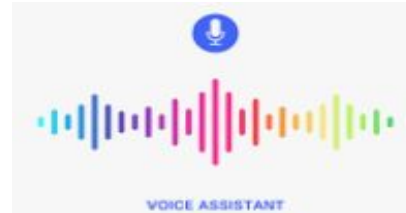# TECH STACK / IMPLEMENTATION DETAILS
(Tech and Tools to be used)

Solution Architecture

Here we have shared the Mind Map (Step by Step flow), Flow chart (Diagram representation), and Outline of our HR bot.

Flow Chart:
https://drive.google.com/drive/folders/1GLggy_IFD5jAeVPAYU3YHbp80kR5IVlq?usp=sharing
Mind Map:
https://drive.google.com/drive/folders/1KhnTD-FhLs0hKkrECYoaNcimjzHaMB0V?usp=sharing
Outline:
https://drive.google.com/drive/folders/1K2XGLsSt478RHp7-_q_lBxXK3iahIrWy?usp=sharing
Process Design document (PDD):
https://drive.google.com/drive/folders/1AoRZXuFfyiqhuPZPzBQ4FhjUBMIgA2a5?usp=sharing

Deployment Design

Robot will be deployed in HR's personal system to run the workflow. This robot should be triggered manually by the authorizer who has access to the bot
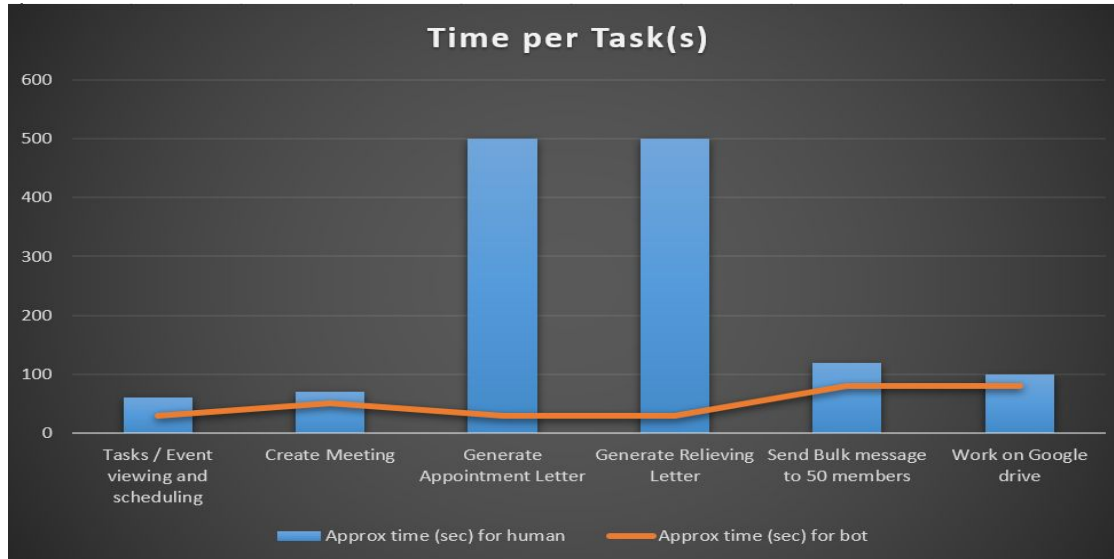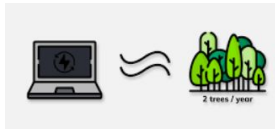
TIME FOR DEMO !!!

EXISTING SOLUTIONS vs OUR'S FOR
THE PROBLEM

The HR process usually takes place either manually or the automations are done through small modules. The predicted time graph between our HR Assist bot and the regular HR process which is created after some processed surveys that took place with some known HR's of our's. And since most of the computation time could be reduced and the HR process being a mandatory process at every business scales globally, the carbon footprints released due to computational processes can be controlled at a really larger scales.

Time per Task(s)

Chart x-axis: Tasks / Event viewing and scheduling, Create Meeting, Generate Appointment Letter, Generate Relieving Letter, Send Bulk message to 50 members, Work on Google drive

Legend: ■ Approx time (sec) for human — Approx time (sec) for bot

UNIQUENESS OF THE IDEA?

Details :

End-User	HR (Human resources)
User Department	HR (Human Resources) department
Industries	HR in all type of industries, This bot will be developed in order to help HR's in all industries.
UiPath Products Used	1. UiPath Intelligent OCR 2. Speech 3. UiPath Form 4 .Document understanding ML 5. OmniPage 6. Web API 7. Language Translator
Other – Integrations / APIs / Technologies Used	1. Document Understanding, 2. WhatsApp API Key

Benefits :

★ This bot will be developed in order to help all HR's at different domains and companies.

★ HR shall do 7 kinds of tasks more faster and easier.

★ Security is provided through 2-step verification (entering password and an OTP) thus only HR can have access of this bot.

★ This bot will have voice assistant to get better user experience.

★ HR will be able to interact with the bot in their mother tongue or in their comfortable language.

★ Creating log file to track and view each and every step taken by the bot and the HR within the work time.

THANK YOU