**AI Recruiter**

Shortlist a Suitable candidate for specific Job Role

Team name: **RPTECHBYTE**

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AI Recruiter – Shortlist a Suitable candidate for specific Job Role

**1.Introduction**

**1.1Overview:**

Before e-recruitment and social media recruitment came into play, traditionally organizations would follow a fairly simple, but **long and often inefficient** process of hiring.

* **AI for recruiting** is an emerging category of HR technology designed to reduce — or even remove — time-consuming activities like manually screening resumes.
* The basic challenge of recruitment remain including how to find, screen and shortlist candidates. ***Shortlisting*** is the most time taking process in the recruitment.
* The main challenge will be **Determining the Shortlist Criteria** and it’s the most time consuming step in recruitment process.
* Using criteria that are correlated with the job performance to shortlist candidates helps you avoid legal and discrimination issues.
* The important thing here is to apply your criteria consistently , fairly and objectively across all candidates. This AI recruiting helps in automating candidate short listing.
* Based on this, only those candidates who perfectly meet the eligibility criteria can be called upon for an interview.
* To help you in identifying the right candidates from a large applicant pool, We have come up this AI recruitment technology.

**1.2Purpose:**

* This AI recruitment project is designed to **streamline** or **automate** some part of the recruiting workflow, especially repetitive, high-volume tasks and to predict a candidate’s fit for a position
* Artificial intelligence will help determine if you get your next job and we used the IBM Watson Assistant, IBM cloud services and apps to the best of our chance to make the project more Accurate and Useful.
* The Main purpose of our Project is “**NO MORE TALENT WASTE**”. Because we developed a three phase solution in which
* Shortlisting criteria is also determined through AI model that can eliminate Unconscious bias and help in determining right criteria
* Sometimes, the best person for a job doesn’t even pass through the interview because of his fear of interview or introvertism. We have even provided an opportunity for such candidates by letting them directly solve a challenge or problem provided by the company.
* ChatBot interaction for the candidates is even included Because the Candidate Experience is such a core element of the recruiting process

**Existing problem**

***Problem 1:***

**What if we fail in choosing the right criteria?** It is also a challenge in this process of recruitment.

The **selection criteria** may vary from position to position & company to company based on their need. Selecting the essential and desirable criteria for the job role is the main challenge that decides the whole recruitment problem. But , in most of the cases the company itself will be in a confused state of right criteria for the recruitment. This **Right Criteria Selection** is a major problem.

***Problem 2:***

It is estimated that a maximum 40 percent of the interviewees are **introverts.** This became a problem for the interviewers to know whether they are talented enough for that job or not.

**Proposed Solution**

We have come with a three phase solution scheme where each phase deals with the recruitment process in a different way..

Phase 1 of this project deals with the **general way of recruitment**.

Here, the Company should set its requirements initially.

when a candidate submits his details, our model compares with the requirements and takes an action based on it.

Phase 2 of the solution deals with **AI-enabled way of recruitment**.

\*\* This is to overcome Problem 1 discussed above \*\*

Here, our model trains based on the previously worked employes data.

The software learns about existing employees’ experience, education, and other qualifications and applies this knowledge to new applicants in order to predict the selection possibility for the shortlisting candidates list.

Phase 3 of our project works based on the Work & Prove method.

\*\* This is to overcome Problem 2 discussed above \*\*

Here, the job posting company should post a piece of work,

When the candidate is interacting with our chatbot, then it displays the problem to the candidate.

**Software Designing**

Phase 1: It follows the general way of recruiting.

* Initially, the company should set its requirements (Marks, Internships attended,..)
* When the interviewee is interacting with the **software bot**, the bot will collect the required information about the candidate by means of conversation. That bot is developed using IBM Watson Assistant.
* Resume will also be taken from the candidate and the required information is extracted using **Pyresparser**
* All the data collected and extracted from users(Company and Interviewees) is stored in the database. For this storing purpose, we are using **DB2**.
* Later, it compares the candidates' data with company requirements. We pass the candidates data to **IBM Functions** as parameters where the python code is developed based on the shortlisting criteria of the company. Functions evaluate the information and stores the result(Shortlisted or not) in the database.

Phase 2:

\*\* This is to overcome Problem 1 discussed in the problem description \*\*

* It's a modern & technical approach.
* For this, we collect the data of experience, education, and other qualifications) from **Existing Employees** of the company
* Use this knowledge to new applicants in order to predict the **Selection Possibility For The Shortlisting Candidates List**.
* Then, we will form a dataset with those attributes and we train the model using **Auto AI** (IBM Technology) .
* Auto AI model is implemented using **Jupyter** notebook of IBM Watson studio such that the data provided for a post by the company is trained **automatically by Auto AI**. The resultant **Scoring Endpoint URL** and Attributes for selection criteria are stored in the Database(**DB2**) separately
* When the interviewee is interacting with the **ChatBot**, the bot will collect the required information about the candidate by means of conversation. That bot is developed using **IBM Watson Assistant**.
* **Resume** will also be taken from the candidate and the required information is extracted using **PyResParser** Module of Python.
* All the data collected and extracted from user(Interviewees) is stored in the **Database**.
* Candidates data and company’s stored scoring endpoint URL are retrieved then the trained model can predict whether the person can be shortlisted or not.

#### Phase 3:

It's like **Work & Prove** technique.

\*\* This is to overcome **Problem 2** discussed in the problem description \*\*

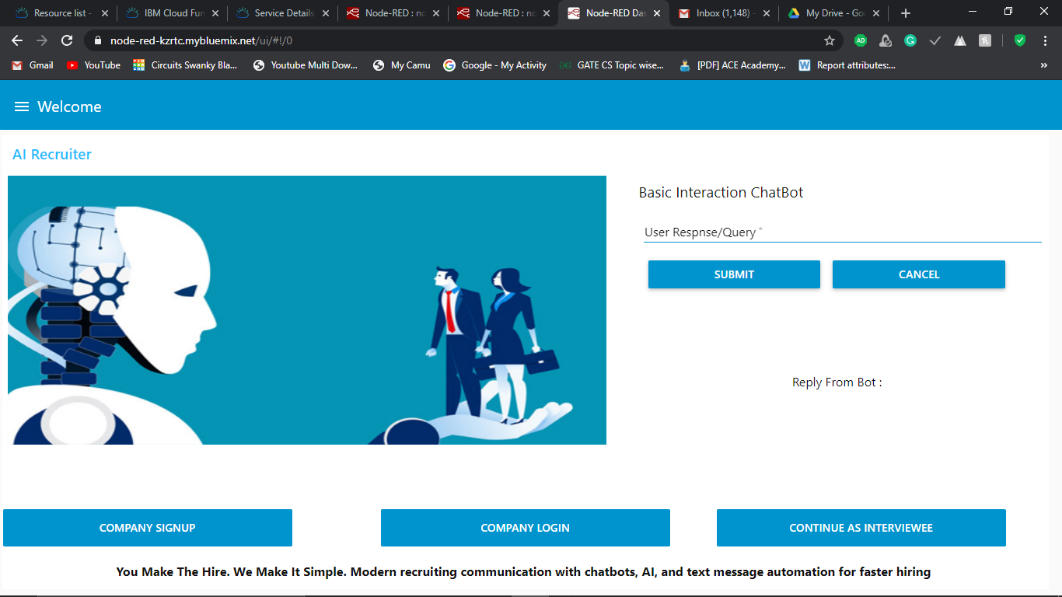
        \*\*\*Also checks the Industry Readiness of the person \*\*\*

* Especially when hiring computer engineers and developers, we need to be able to assess their most specific programming skills and that can only be done with coding **Tests And Challenges** that put their knowledge and comprehension of coding languages to the test.
* Initially, the Company should post a **Problem Statement** along with input ,expected output.
* When the interviewee is interacting with the software bot, the bot will collect the required information about the candidate by means of conversation.
* Also, the bot displays the details about the **Challenge** posted by the company.
* The candidate should complete it to show his capability and readiness to the post.

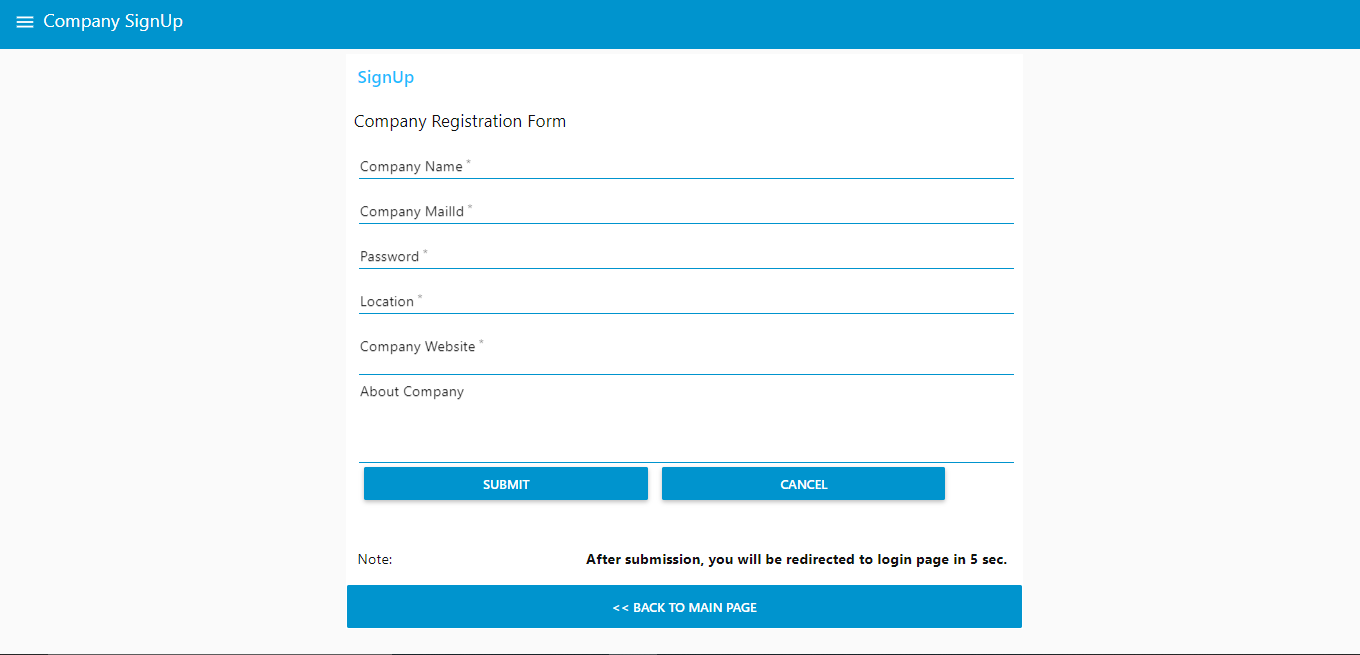
**6.Result:**

**User Interface:**

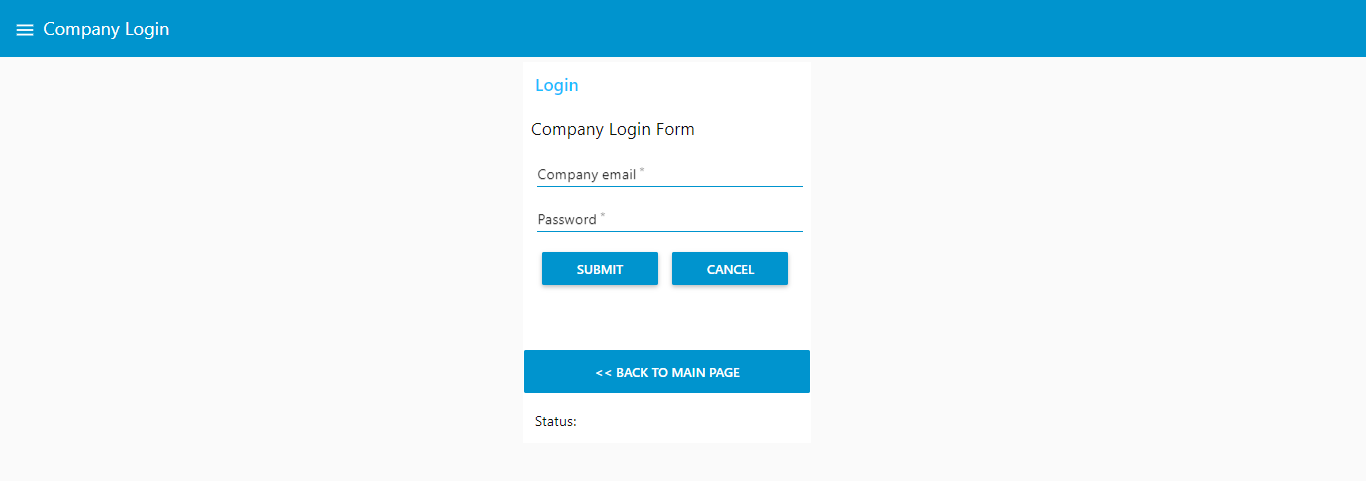
**Home page:**



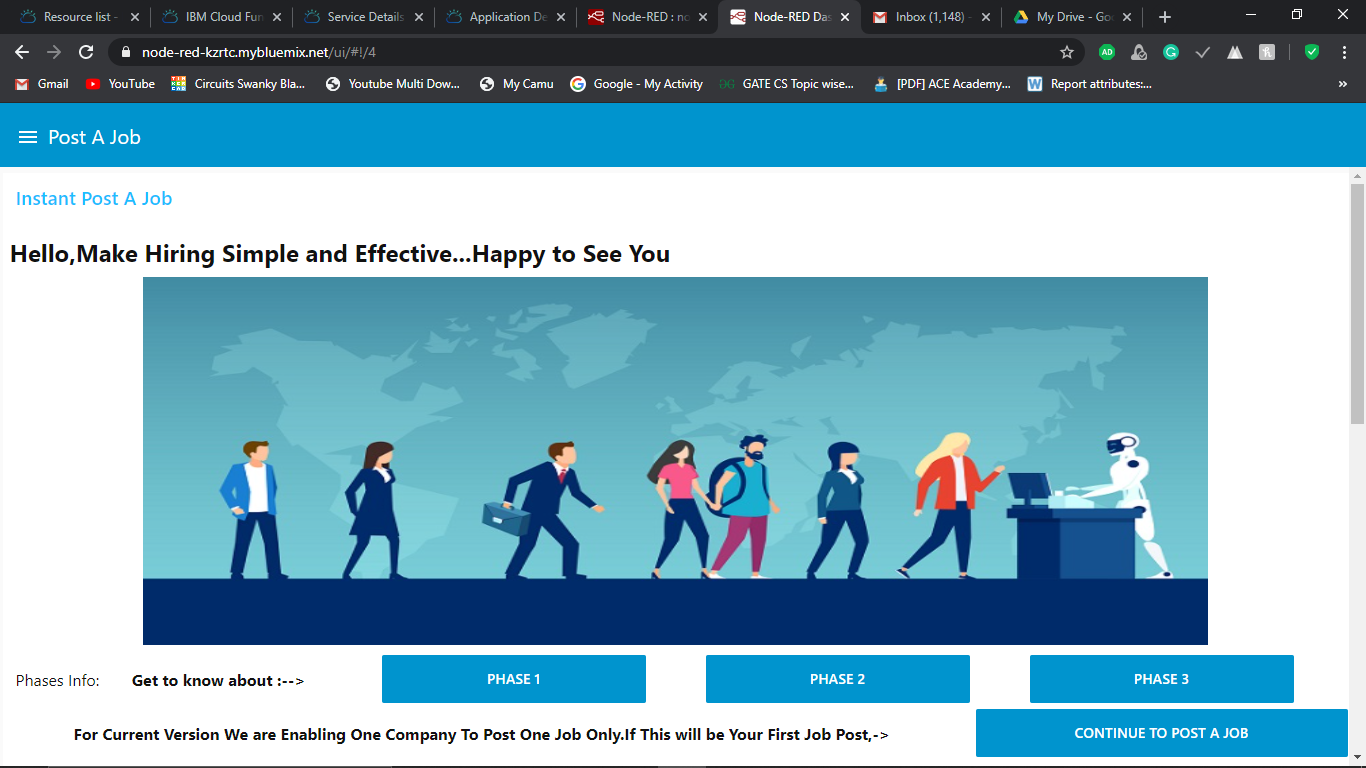
**Company sign up page:**

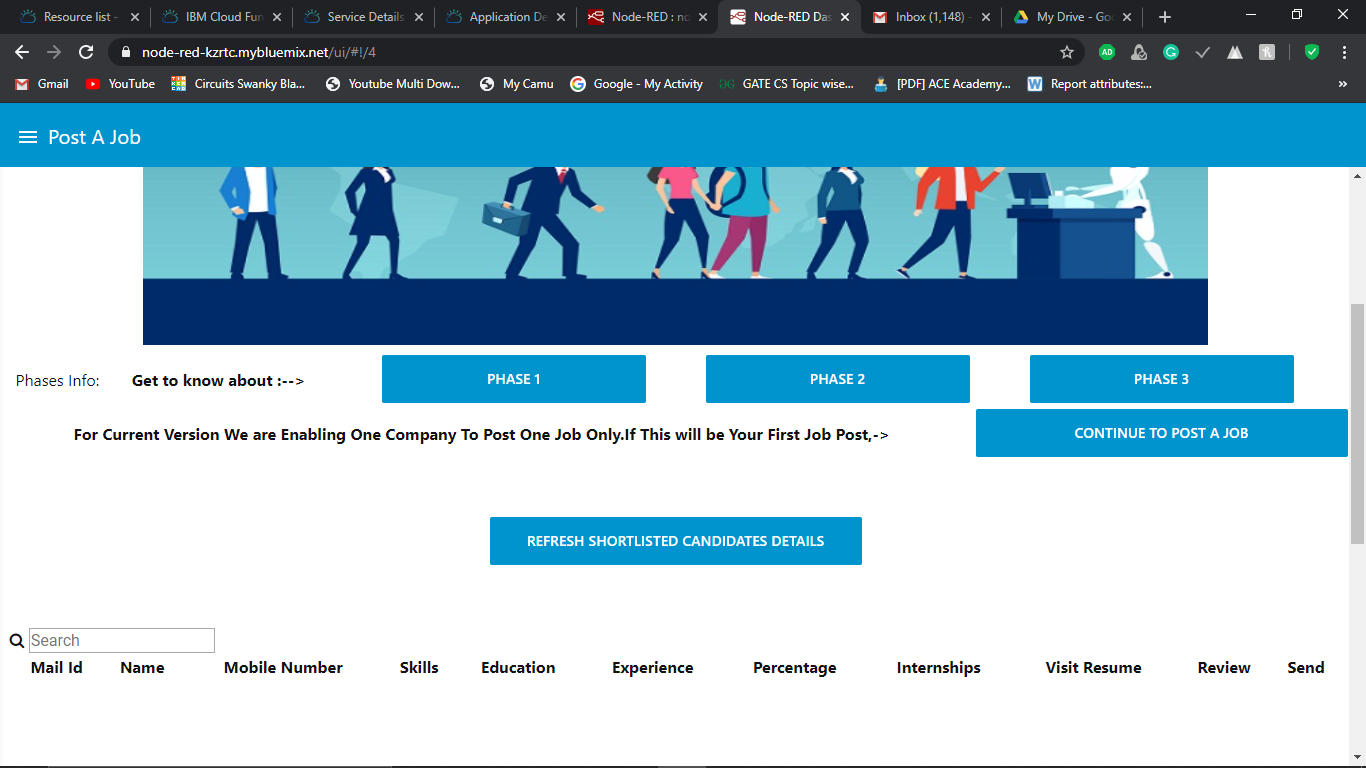


**Company login:**



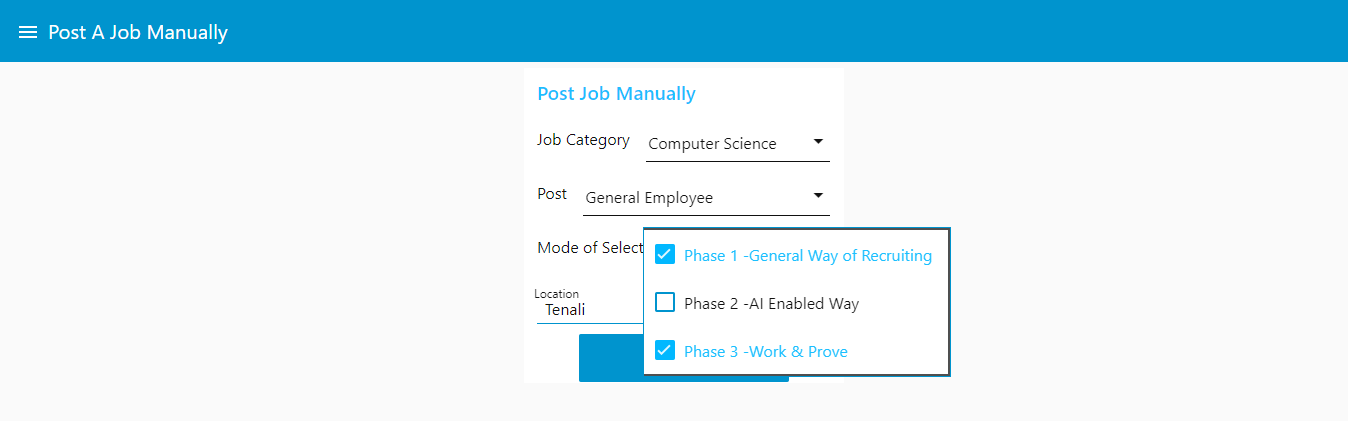
**After login Company will be redirected to :**





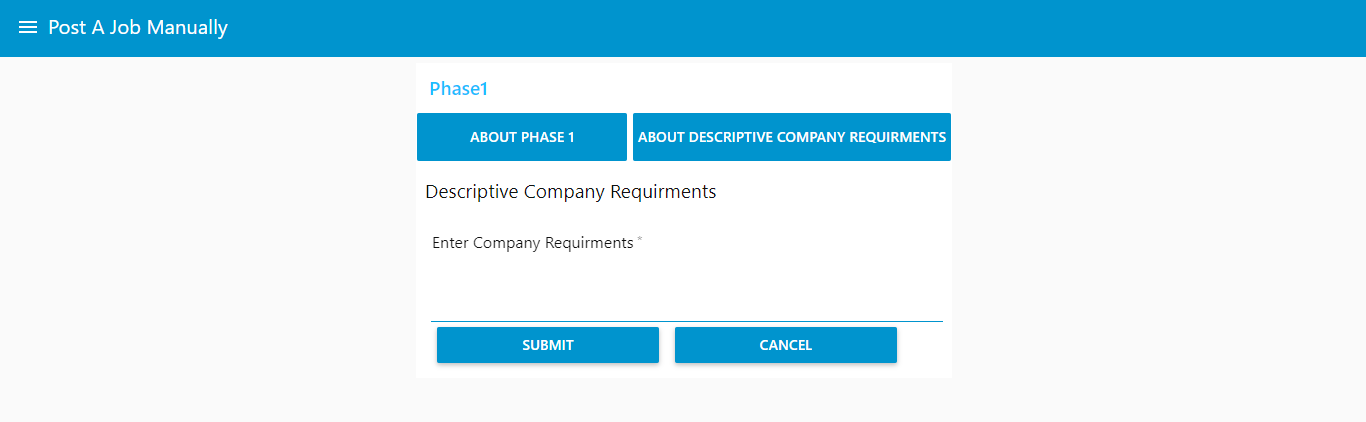
Here, the company can know about each phase of our solution in detail by clicking on the provided phases buttons.

Or He can continue to post a job(by respective button as shown above)



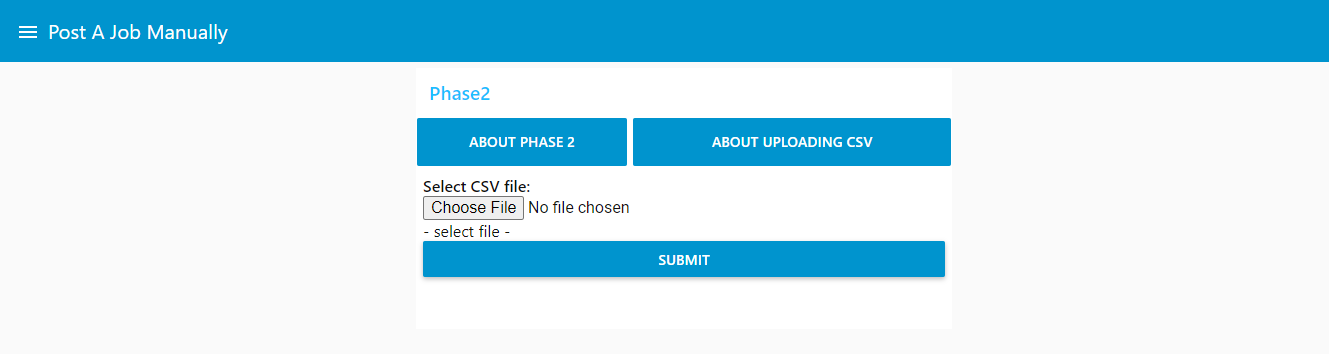
where, he can post job under any phase(as shown above).

Phase 1 will be as follows..where the company needs to provide its shortlisting criteria(Describing all the required and necessary criterias)

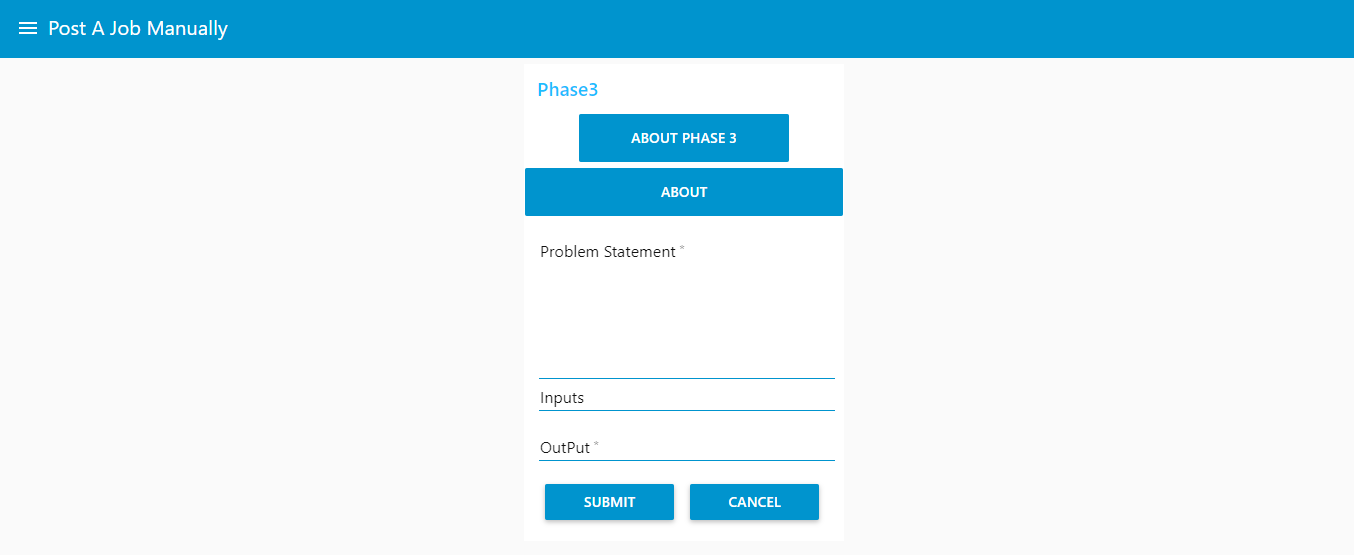


Based on the description provided by the company , backend respective python code is generated by the admin accordingly.

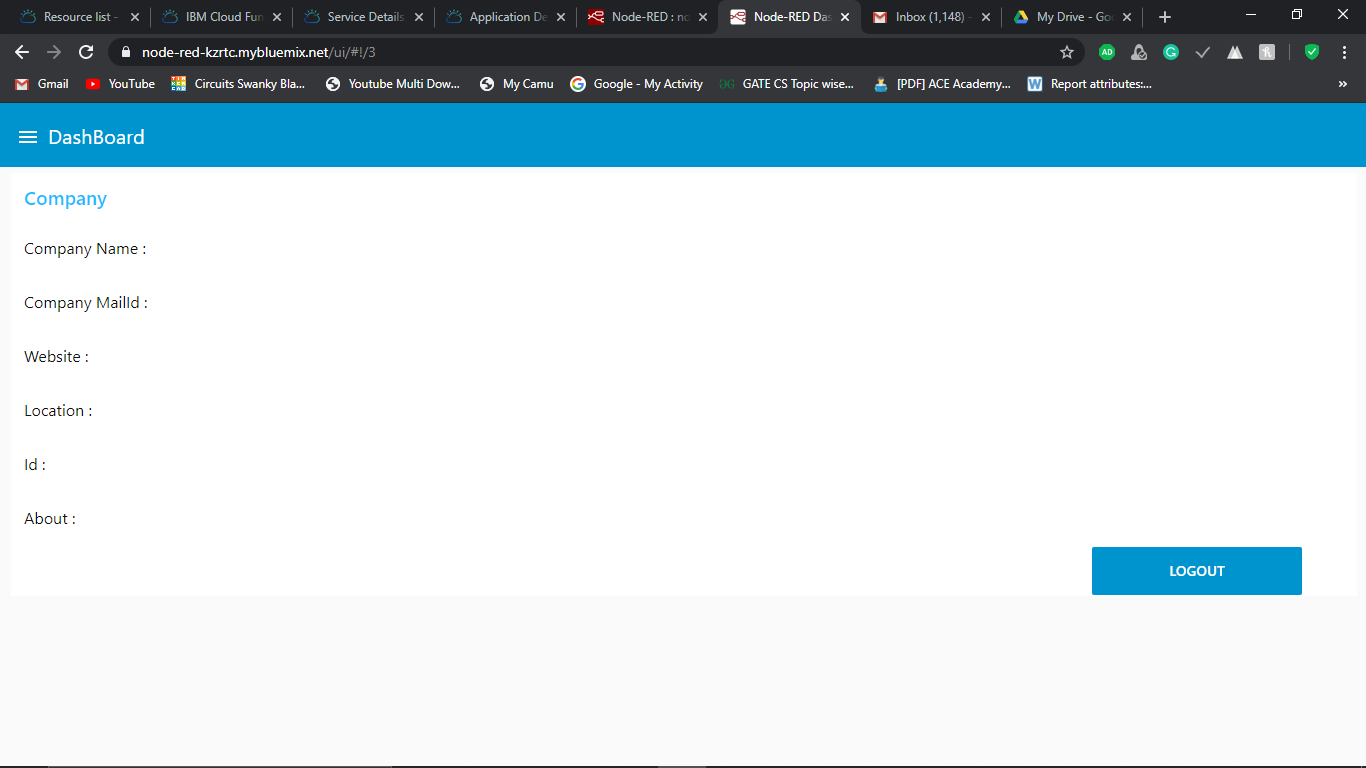
Phase 2 will be as follows where the company must provide a csv file of already working employees of their company whose attributes/qualities are provided in it.

Based on this knowledge AI model will be trained and classifies the applied candidates as selected/not. 

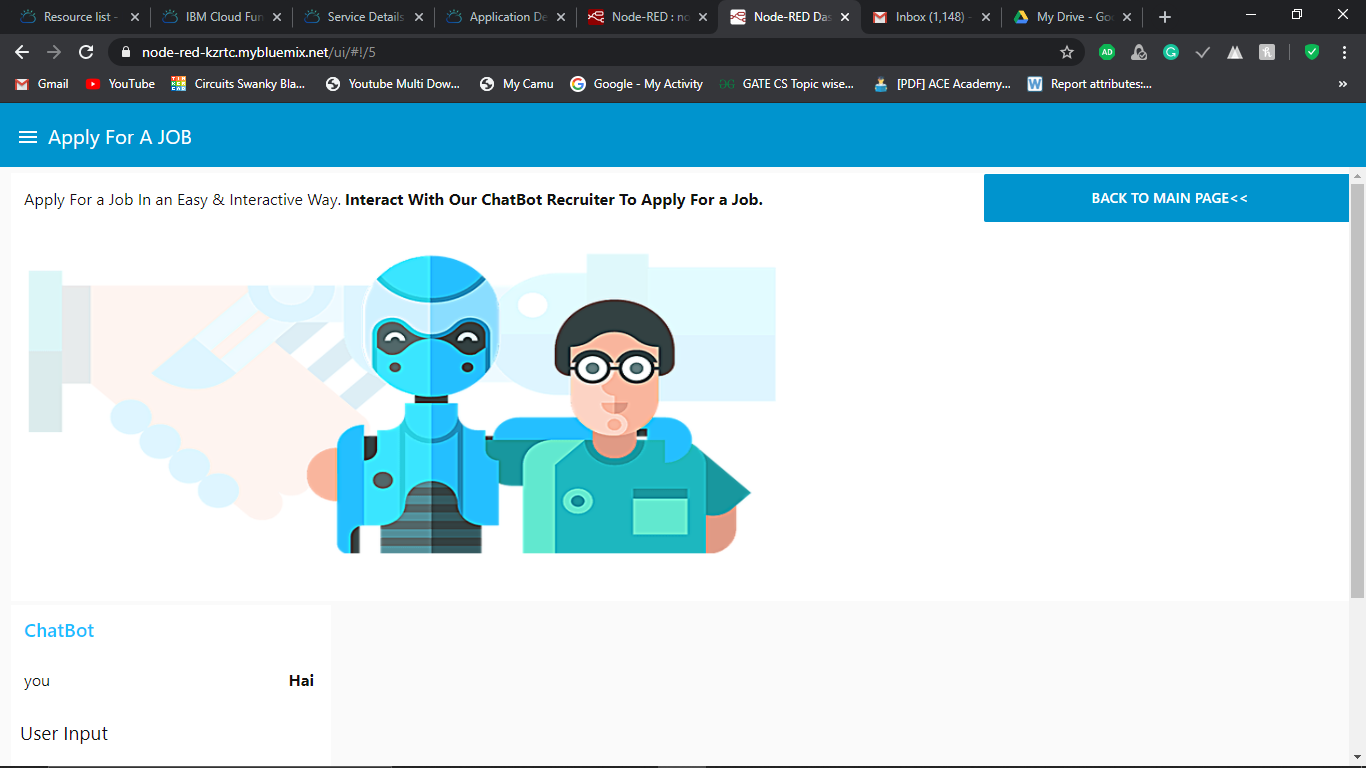
Phase 3 will be as follows where the company must provide the challenge and corresponding input and expected output.

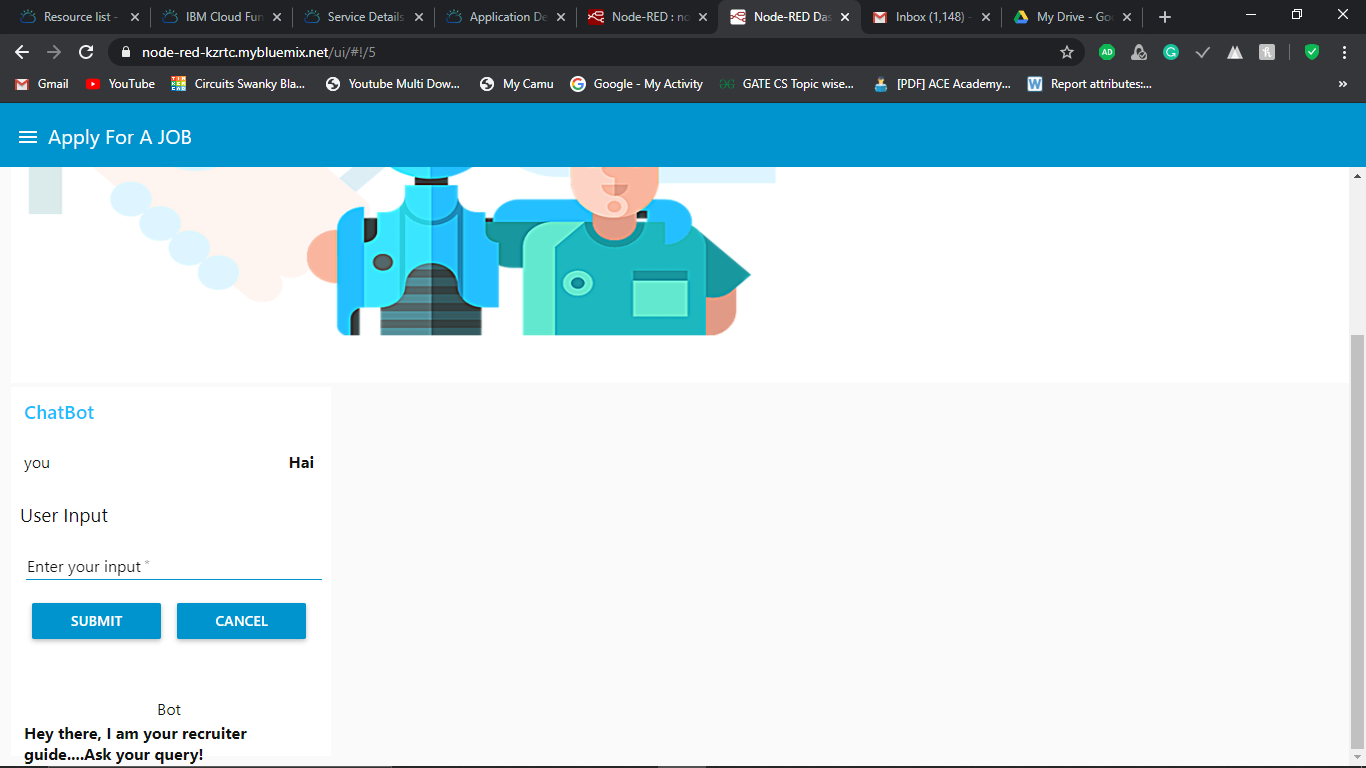


**The company can view their details in its dashboard:**



**CandidatePage (Candidate can apply for a job as follows):**





Candidate can apply for a job using ChatBot provided.

ChatBot takes the needed details and Resume from the Candidate.

**7.Advantages:**

**1.The quality of hiring increases:**

**HR staff** needs to [select the right people](https://www.talentlyft.com/en/blog/article/139/7-hr-tips-to-recruit-the-right-people-for-your-company) from a **Big Pool** of applicants. Thanks to this AI recruitment, the whole process can be divided into several stages, automatically. Recruiters can collect more data on each candidate and so **Evaluate**candidates more effectively.

**2. Unbiased decisions:**

* AI can help in **Determining Unbiased Criteria** for a candidate.
* **Unconscious bias** can affect your implementation in the real cases of recruitment, which can be overcome by AI recruitment.
* Through this platform, Companies get a great opportunity to hire only the best candidates based on their **real potential and**[**personality**](https://www.crystalknows.com/blog/improve-your-recruiting)

**3.Save Time and Fill Positions Faster:**

* **Manualy screening resumes** is still the most time consuming part of recruiting.
* AI for recruiting represents a boon for recruiters as it can successfully **automate** time consuming repetitive tasks such as screening resumes.

**4. Chatbots:**

* **B**y **automating conversations** related to specific hiring or job questions, candidates can get the answers they’re looking for at any time of the day. This reduces your need to respond to emails or phone calls without reducing the experience of the candidate.
* A chatbot cannot answer complex questions, and users may become frustrated with it which **We Have Overcome By Adding Even A Manually Filling Up Option** of the needed information by the user **instead of ChatBot alone**.

**5. Right Criteria Selection:**

* Selecting the essential and desirable criteria for the job role is the main challenge that decides the whole recruitment problem
* For this, we collect the data of experience, education, and other qualifications from **Existing Employees** of the company ,Use this knowledge to new applicants in order to predict the  **Shortlisting possibility of the Candidate.** This is done in Phase 2 of our Technology.

**7.Disadvantages:**

**The two main disadvantages of AI recruitment are:**

* AI’s data-based conclusions may not show a recruiter what someone’s work ethic or character is like. Sometimes a **Face To Face Interview** is the best way for a company to recruit based on what they need in the present moment.
* Some candidates who understand how the system works may include **Keywords** and trick the system to identify them as a good fit.

**8.Applications**

This AI Recruiter helps in can be mainly used by the companies that has to screen the candidates from a large applicant pool and identify the best fit candidates.It helps to connect and retain the candidates and recruiters with a single platform along with a better experience.  By using AI recruitment to hiring, you can attract the right applicants, ask the right questions, and make smarter choices about who will best fit your open positions

**9.Conclusion**

Finding, connecting, and retaining people is a complicated process whereas Our AI Recruiter helps in doing the entire screening process and connects the recruiters and candidates with a better experience. We’ve used the IBM Watson Assistant, IBM cloud services and apps to the best of our chance to make the project more Accurate and Useful. Because of our three phase solution

* We have even provided an opportunity for introvert candidates
* We can determine right criteria for shortlisting using the previous Working employees traits trained AI model
* ChatBot interaction for the candidates makes the project even more Accessible Because the Candidate Experience is such a core element of the recruiting process

**10.Future Scope**

[Chatbots Or Automated Messaging Services](https://harver.com/blog/uses-ai-in-recruitment/) can be developed even more by automating conversations related to specific hiring or job questions, candidates can get the answers they’re looking for at any time of the day. This reduces recruiters need to respond to emails or phone calls without reducing the experience of the candidate.

**11.BIBILOGRAPHY**

**College Name**: Bapatla Engineering College

**Work Title:** AI Recruiter – Shortlist a suitable candidate for job

**References:**

1. <https://medium.com/ibm-watson/watson-studio-autoai-python-api-and-covid-19-data-78169beacf36>

**Appendix**

**Source Code:**

**#Method Definitions For AI-Recruitment**

def check\_db():

temp=idadbp2.ida\_query("select count(\*) FROM PHASE\_2 where trained\_status='nottrained' FETCH FIRST 1 ROWS ONLY")

return temp[0]

def check\_candidate\_db():

temp=idadbcd.ida\_query("select count(\*) FROM CANDIDATE\_DATA where VISITED='notvisited' FETCH FIRST 1 ROWS ONLY")

return temp[0]

def download\_file\_from\_google\_drive(id, destination):

URL = "https://docs.google.com/uc?export=download"

session = requests.Session()

response = session.get(URL, params = { 'id' : id }, stream = True)

token = get\_confirm\_token(response)

if token:

params = { 'id' : id, 'confirm' : token }

response = session.get(URL, params = params, stream = True)

save\_response\_content(response, destination)

def get\_confirm\_token(response):

for key, value in response.cookies.items():

if key.startswith('download\_warning'):

return value

return None

def save\_response\_content(response, destination):

CHUNK\_SIZE = 32768

with open(destination, "wb") as f:

for chunk in response.iter\_content(CHUNK\_SIZE):

if chunk: # filter out keep-alive new chunks

f.write(chunk)

def trainmodel():

#idadb.reconnect()

temp=idadbp2.ida\_query("SELECT cid FROM PHASE\_2 where trained\_status='nottrained' FETCH FIRST 1 ROWS ONLY")

untrained\_company=temp[0]

filename=untrained\_company

cn=untrained\_company.lower()

print("Training Company ID:",cn)

training\_df = pd.read\_csv("https://ibmhctrail.s3.eu-gb.cloud-object-storage.appdomain.cloud/"+filename)

print("Training Data:")

print(training\_df)

project = Project(project\_id='b43dc68b-a702-442c-b23c-40f7167587ae', project\_access\_token='p-d533ba6af096afd9b3c393749c994358bffa692a')

pc = project.project\_context

wml\_credentials ={

"apikey": "a4n2ckni0mQWmzQpeQ65vynAA9R\_rc\_KJIBfiBs85ovY",

"iam\_apikey\_description": "Auto-generated for key 7169e44f-3e88-4f0f-aafa-312962674fb4",

"iam\_apikey\_name": "Service credentials-1",

"iam\_role\_crn": "crn:v1:bluemix:public:iam::::serviceRole:Writer",

"iam\_serviceid\_crn": "crn:v1:bluemix:public:iam-identity::a/aab5d911bd9b4200b0419c3dbd2b5952::serviceid:ServiceId-e611b840-8f2b-49aa-bcea-b404f0d964a2",

"instance\_id": "d4b35ed5-f881-4356-bdce-f0d8acf20559",

"url": "https://eu-gb.ml.cloud.ibm.com"

}

print("Project Context Details:",pc)

csv\_details = project.save\_data(data=training\_df.to\_csv(index=False),file\_name='temp.csv',overwrite=True)

print("Instantiating a Temporary dataset")

print(csv\_details)

storage\_meta = project.get\_storage\_metadata()

filename = csv\_details['file\_name']

bucket\_name = csv\_details['bucket\_name']

credit\_risk\_conn = DataConnection(

connection=S3Connection(endpoint\_url=storage\_meta['properties']['endpoint\_url'],

access\_key\_id=storage\_meta['properties']['credentials']['editor']['access\_key\_id'],

secret\_access\_key=storage\_meta['properties']['credentials']['editor']['secret\_access\_key']),

location=S3Location(bucket=bucket\_name,

path=filename))

training\_data\_reference=[credit\_risk\_conn]

experiment = AutoAI(wml\_credentials)

pipeline\_optimizer = experiment.optimizer(

name='candidate\_shortlisting\_predictor - AutoAI',

prediction\_type='classification',

daub\_include\_only\_estimators=[AutoAI.ClassificationAlgorithms.LGBM, AutoAI.ClassificationAlgorithms.XGB],

prediction\_column='satisfied',#df[df.columns[-1]]

scoring=AutoAI.Metrics.R2\_SCORE,)

print(pipeline\_optimizer.get\_params())

run\_details = pipeline\_optimizer.fit(

training\_data\_reference=training\_data\_reference,

background\_mode=False)

#print("Run Details:")

#print(run\_details)

summary = pipeline\_optimizer.summary()

print("Pipeline Summary:")

print(summary)

best\_pipeline = pipeline\_optimizer.get\_pipeline()#Since we haven't passed any pipeline name as parameter, it automatically chooses the best\_pipeline

best\_pipeline.visualize()

best\_pipeline.pretty\_print(ipython\_display=True)

service = WebService(wml\_credentials)

service.create(

experiment\_run\_id=pipeline\_optimizer.\_engine.\_current\_run\_id,

model=best\_pipeline,

deployment\_name="Shortlist Predictor AutoAI WebService")

scoringurl=service.scoring\_url

print("WebService",service)

surl=""+service.name+","+service.id+","+service.scoring\_url+","+service.asset\_id

print(surl)

colstr=""

data=training\_df

for col in data.columns:

colstr+=','+col

colstr

colstr=colstr.lstrip(',')

col=[]

col=colstr.split(',')

col.pop()

colstr=",".join(col)

idadbp2.ida\_query("update PHASE\_2 set surl='"+surl+"' where cid='"+untrained\_company+"'")

idadbp2.ida\_query("update PHASE\_2 set params='"+colstr+"' where cid='"+untrained\_company+"'")

idadbp2.ida\_query("UPDATE PHASE\_2 SET TRAINED\_STATUS='Trained' WHERE CID='"+cn+"' ")

idadbp2.commit()

return

def check\_eligibility():

data=idadbcd.ida\_query("SELECT RESUMELINK,APID FROM CANDIDATE\_DATA where VISITED='notvisited'")

file\_id=data['resumelink'][0]

file\_id=file\_id.replace('/view?usp=sharing',"")

file\_id=file\_id.replace('https://drive.google.com/file/d/','')

apid=data['apid'][0]

destination = 'temp.pdf'

download\_file\_from\_google\_drive(file\_id, destination)

data = ResumeParser('temp.pdf').get\_extracted\_data()

name=data['name']

email=data['email']

mbl=data['mobile\_number']

skills=data['skills']

exp=data['experience']

totalexp=data['total\_experience']

print("Candidate Name:",name)

print("Candidate Email:",email)

print("Candidate Mobile Number:",mbl)

print("Candidate Skills:",','.join(skills))

print("Candidate Experiences:",exp)

print("Candidate Total Experience:",totalexp)

print("Candidate Application Id:",apid)

idadbcd.ida\_query("UPDATE CANDIDATE\_DATA SET MAILID ='"+email+"',NAME='"+name+"',MBLNO='"+str(mbl)+"',SKILLS='"+','.join(skills)+"',exp='"+str(totalexp)+"',visited='visited' where APID='"+apid+"';")

cidn=idadbcd.ida\_query("select cid from CANDIDATE\_DATA where APID='"+apid+"';")

print("Applied Company:",cidn[0])

cidn=cidn[0]

surl=idadbp2.ida\_query("select surl from PHASE\_2 where cid='"+cidn+"' FETCH FIRST 1 ROWS ONLY")

print("Web Service Details:",surl[0])

type(surl[0])

params=idadbp2.ida\_query("select params from PHASE\_2 where cid='"+cidn+"' FETCH FIRST 1 ROWS ONLY")

params=params[0]

print("Required Parameters For the company:",params)

testdata=idadbcd.ida\_query("select "+params+" from CANDIDATE\_DATA where APID='"+apid+"';")

print(testdata)

from watson\_machine\_learning\_client.deployment import WebService

s= WebService({

"apikey": "a4n2ckni0mQWmzQpeQ65vynAA9R\_rc\_KJIBfiBs85ovY",

"iam\_apikey\_description": "Auto-generated for key 7169e44f-3e88-4f0f-aafa-312962674fb4",

"iam\_apikey\_name": "Service credentials-1",

"iam\_role\_crn": "crn:v1:bluemix:public:iam::::serviceRole:Writer",

"iam\_serviceid\_crn": "crn:v1:bluemix:public:iam-identity::a/aab5d911bd9b4200b0419c3dbd2b5952::serviceid:ServiceId-e611b840-8f2b-49aa-bcea-b404f0d964a2",

"instance\_id": "d4b35ed5-f881-4356-bdce-f0d8acf20559",

"url": "https://eu-gb.ml.cloud.ibm.com"

})

print("Empty WebService Object",s)

print("After Assigning trained details,")

surl=surl[0]

s.name=surl.split(',')[0]

s.id=surl.split(',')[1]

s.scoring\_url=surl.split(',')[2]

s.asset\_id=surl.split(',')[3]

print("New WebService Object",s)

a=s.score(testdata)

print(s.score(testdata))

print(testdata)

prediction=""

if(a['predictions'][0]['values'][0][0])=="Yes":

prediction="Selected"

else:

prediction="Not Selected"

idadbcd.ida\_query("update candidate\_data set p2='"+prediction+"' where APID='"+apid+"';")

idadbcd.commit()

return s.score(testdata)

from watson\_machine\_learning\_client.deployment import WebService

import time

while True:

count1=check\_db()

if(count1)>0:

print("Still "+str(count1)+"companies need to be trained")

print("Training One Company data among "+str(count1))

trainmodel()

else:

print("No Company Posted a job at this time")

count2=check\_candidate\_db()

if(count2)>0:

print("Still "+str(count2)+" candidates need to be checked")

print("Checking One Candidate data among "+str(count2))

a=check\_eligibility()

else:

print("No Candidate Applied for a Job at this time")

time.sleep(30)

**Output(Including only main part of output)**

Still 1.0companies need to be trained

Training One Company data among 1.0

Training Company ID: smart@gmail.com

Training Data:

degree intern exp percentage satisfied

0 B.Tech 0 0 75 No

1 B.Tech 1 0 76 No

2 M.Tech 1 0 95 Yes

3 Deg 0 1 92 Yes

4 Deg 3 1 86 Yes

5 Deg 1 1 81 No

6 M.Tech 1 1 86 Yes

7 B.Tech 1 0 75 No

8 B.Tech 0 1 81 Yes

9 Deg 2 0 94 Yes

10 B.Tech 1 1 84 Yes

11 M.Tech 1 1 81 Yes

12 M.Tech 0 0 82 Yes

13 Deg 1 0 90 No

Project Context Details: <project\_lib.utils.project\_context.ProjectContext object at 0x7f3b28e529b0>

Instantiating a Temporary dataset

{'file\_name': 'temp.csv', 'message': 'File saved to project storage.', 'bucket\_name': 'nagadathibmhack2020-donotdelete-pr-vwlcr1lo81vmk3', 'asset\_id': '67e5537c-86e0-47af-9c85-2256104084b9'}

{'name': 'candidate\_shortlisting\_predictor - AutoAI', 'desc': '', 'prediction\_type': 'classification', 'prediction\_column': 'satisfied', 'scoring': 'r2', 'test\_size': 0.1, 'max\_num\_daub\_ensembles': 1, 't\_shirt\_size': 'l', 'train\_sample\_rows\_test\_size': None, 'daub\_include\_only\_estimators': ['LGBMClassifierEstimator', 'XGBClassifierEstimator'], 'csv\_separator': ',', 'excel\_sheet': 0, 'positive\_label': None, 'run\_id': None}

Training job 0627fc6a-a812-4a1c-81f7-462d34e0ad09 completed: 100%|█| 200/200 [01:43<00:00, 1.93it/s

Pipeline Summary:

Number of enhancements Estimator \

Pipeline Name

Pipeline\_1 0 XGBClassifierEstimator

Pipeline\_2 1 XGBClassifierEstimator

Pipeline\_3 2 XGBClassifierEstimator

Pipeline\_4 3 XGBClassifierEstimator

training\_normalized\_gini\_coefficient training\_roc\_auc \

Pipeline Name

Pipeline\_1 1.0 0.5

Pipeline\_2 1.0 0.5

Pipeline\_3 1.0 0.5

Pipeline\_4 1.0 0.5

holdout\_precision training\_average\_precision \

Pipeline Name

Pipeline\_1 0.5 0.672222

Pipeline\_2 0.5 0.672222

Pipeline\_3 0.5 0.672222

Pipeline\_4 0.5 0.672222

training\_r2\_(optimized) holdout\_average\_precision holdout\_r2 \

Pipeline Name

Pipeline\_1 -0.5 1.0 -1.0

Pipeline\_2 -0.5 1.0 -1.0

Pipeline\_3 -0.5 1.0 -1.0

Pipeline\_4 -0.5 1.0 -1.0

training\_neg\_log\_loss holdout\_recall training\_precision \

Pipeline Name

Pipeline\_1 -0.653729 1.0 0.672222

Pipeline\_2 -0.653729 1.0 0.672222

Pipeline\_3 -0.653729 1.0 0.672222

Pipeline\_4 -0.653729 1.0 0.672222

holdout\_accuracy training\_recall holdout\_f1 \

Pipeline Name

Pipeline\_1 0.5 1.0 0.666667

Pipeline\_2 0.5 1.0 0.666667

Pipeline\_3 0.5 1.0 0.666667

Pipeline\_4 0.5 1.0 0.666667

holdout\_neg\_log\_loss holdout\_normalized\_gini\_coefficient \

Pipeline Name

Pipeline\_1 -0.803461 -1.0

Pipeline\_2 -0.803461 -1.0

Pipeline\_3 -0.803461 -1.0

Pipeline\_4 -0.803461 -1.0

training\_accuracy holdout\_roc\_auc training\_f1

Pipeline Name

Pipeline\_1 0.672222 1.0 0.802381

Pipeline\_2 0.672222 1.0 0.802381

Pipeline\_3 0.672222 1.0 0.802381

Pipeline\_4 0.672222 1.0 0.802381

Numpy-Column-SelectorCompress-StringsNumpy-Replace-Missing-ValuesNumpy-Replace-Unknown-Valuesboolean2floatCat-ImputerCat-Encoderfloat32\_-transformConcat-FeaturesNumpy-Column-SelectorFloat-Str2-FloatNumpy-Replace-Missing-ValuesNum-ImputerOpt-Standard-Scalerfloat32\_-transformNumpy-Permute-ArrayXGB-Classifier

pipeline **=** ((numpy\_column\_selector\_0 **>>** compress\_strings **>>** numpy\_replace\_missing\_values\_0 **>>** numpy\_replace\_unknown\_values **>>** boolean2float() **>>** cat\_imputer **>>** cat\_encoder **>>** float32\_transform()) **&** (numpy\_column\_selector\_1 **>>** float\_str2\_float **>>** numpy\_replace\_missing\_values\_1 **>>** num\_imputer **>>** opt\_standard\_scaler **>>** float32\_transform())) **>>** ConcatFeatures() **>>** numpy\_permute\_array **>>** xgb\_classifier

Preparing an AutoAI Deployment...

Published model uid: 9a0669a8-6db2-42d0-9daa-35f5bc16313b

Deploying model 9a0669a8-6db2-42d0-9daa-35f5bc16313b using V4 client.

#######################################################################################

Synchronous deployment creation for uid: '9a0669a8-6db2-42d0-9daa-35f5bc16313b' started

#######################################################################################

initializing......

ready

------------------------------------------------------------------------------------------------

Successfully finished deployment creation, deployment\_uid='b718e04d-4deb-458f-9016-5e195c3d7fd4'

------------------------------------------------------------------------------------------------

WebService name: Shortlist Predictor AutoAI WebService, id: b718e04d-4deb-458f-9016-5e195c3d7fd4, scoring\_url: <https://eu-gb.ml.cloud.ibm.com/v4/deployments/b718e04d-4deb-458f-9016-5e195c3d7fd4/predictions,> asset\_id: 9a0669a8-6db2-42d0-9daa-35f5bc16313b

Shortlist Predictor AutoAI WebService,b718e04d-4deb-458f-9016-5e195c3d7fd4,https://eu-gb.ml.cloud.ibm.com/v4/deployments/b718e04d-4deb-458f-9016-5e195c3d7fd4/predictions,9a0669a8-6db2-42d0-9daa-35f5bc16313b

No Candidate Applied for a Job at this time

No Company Posted a job at this time

No Candidate Applied for a Job at this time

No Company Posted a job at this time

No Candidate Applied for a Job at this time

No Company Posted a job at this time

No Candidate Applied for a Job at this time

No Company Posted a job at this time

Still 1.0 candidates need to be checked

Checking One Candidate data among 1.0

Candidate Name: Nagadath Gummadi

Candidate Email: nagadath28@gmail.com

Candidate Mobile Number: 8639387700

Candidate Skills: Java,C,Css,Oracle,System,Python,Javascript,C#,Ibm,Html,Engineering,Technical,Cloud,Machine learning,R,Training,Mobile,English

Candidate Experiences: ["• Attended workshop on 'Internet of Things' conducted at Warangal,NIT-Technozion from 28th to", '30th of September,2018.Learned how the computing devices are embedded in everyday objects..', "• Attended workshop on 'Ethical hacking' conducted by WAC 2019 at BITS Hyderabad on January", '2nd and 3rd of 2019', "• Got a free internship offer of SmartBridge company's Summer Internship program (SIP-2019)", 'and interned for 1month on Machine Learning with Python.']

Candidate Total Experience: 0.0

Candidate Application Id: 1594833213645

Applied Company: smart@gmail.com

Web Service Details: Shortlist Predictor AutoAI WebService,b718e04d-4deb-458f-9016-5e195c3d7fd4,https://eu-gb.ml.cloud.ibm.com/v4/deployments/b718e04d-4deb-458f-9016-5e195c3d7fd4/predictions,9a0669a8-6db2-42d0-9daa-35f5bc16313b

Required Parameters For the company: degree,intern,exp,percentage

degree intern exp percentage

0 B.Tech 2 0.0 80

Empty WebService Object name: None, id: None, scoring\_url: None, asset\_id: None

After Assigning trained details,

New WebService Object name: Shortlist Predictor AutoAI WebService, id: b718e04d-4deb-458f-9016-5e195c3d7fd4, scoring\_url: <https://eu-gb.ml.cloud.ibm.com/v4/deployments/b718e04d-4deb-458f-9016-5e195c3d7fd4/predictions,> asset\_id: 9a0669a8-6db2-42d0-9daa-35f5bc16313b

{'predictions': [{'fields': ['prediction', 'probability'], 'values': [['No', [0.8133564591407776, 0.1866435557603836]]]}]}

degree intern exp percentage

0 B.Tech 2 0.0 80

No Company Posted a job at this time

No Candidate Applied for a Job at this time

No Company Posted a job at this time

No Candidate Applied for a Job at this time

No Company Posted a job at this time

No Candidate Applied for a Job at this time