

LISTNER - AI-based Life Assistance Chatbot Integration for public welfare

1. INTRODUCTION

1.1 Overview A brief description about your project

An AI-based life assistance chatbot integration for public welfare would likely involve the development and deployment of an intelligent virtual assistant designed to provide valuable services, support, and information to the general public. This chatbot could utilize advanced AI technologies to enhance public welfare by addressing various societal, health, educational, and informational needs.

1.2 Purpose the use of the project.what can be achieved using this.

"LISTNER" could be a specialized AI-powered chatbot designed to address various needs of the public and promote general welfare. Its purpose could encompass several key areas The primary purpose of LISTNER is to contribute to the enhancement of public welfare. It achieves this by offering valuable assistance and support across various domains, ensuring that individuals have access to the information and resources they need to lead healthier, more secure, and fulfilling lives. LISTNER aims to break down barriers to accessing essential information and services. It provides 24/7 accessibility, offers multilingual support, and ensures that individuals with diverse backgrounds and needs can easily access assistance, promoting inclusivity and reducing disparities.

2.LITERATURESURVEY

2.1 Existing Problem :

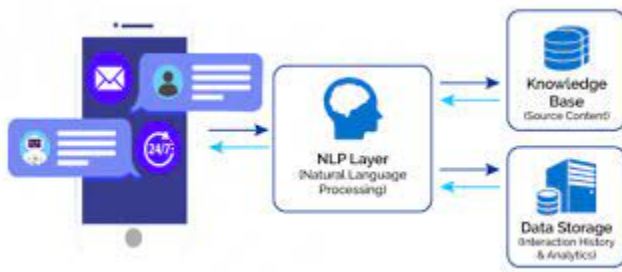
It's important to note that the challenges and problems associated with AI-based life assistance chatbot integrations can be complex and context-dependent. If "LISTNER" is indeed a specific project, I recommend looking for official documentation or recent news to understand the specific challenges it aims to address in the realm of public welfare

2.2 ProposedSolution Advanced Natural Language Processing (NLP):

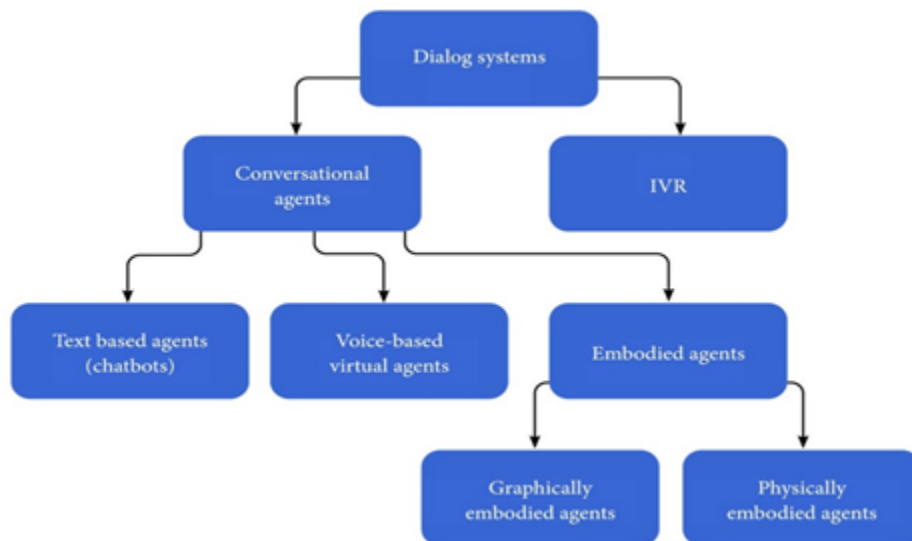
Implement state-of-the-art NLP algorithms to improve the chatbot's understanding of user queries, the enabling it to provide accurate and contextually relevant responses. Continuous Learning: Develop the chatbot to learn from user interactions over time.This can enhance its accuracy and effectiveness by refining its responses based on real-world user feedback.Data Privacy Measures: Implement strict data encryption, anonymization, and compliance with data protection regulations to ensure user data privacyClear communication about data usage and storage is essential to build user trust.

3. THEORITICAL ANALYSIS

3.1 Block diagram Diagrammatic overview of the project



3.2 Hardware/Software designing Hardware and software requirements of the project



4. EXPERIMENTAL INVESTIGATIONS:

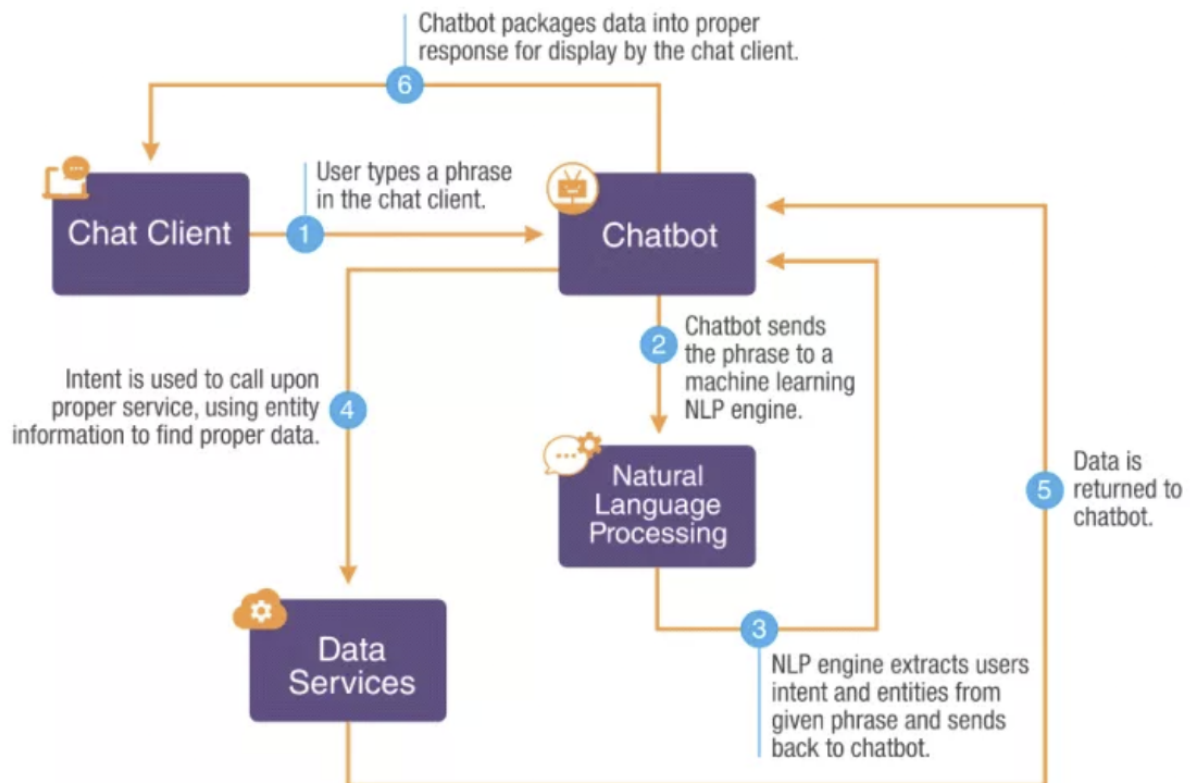
Remember, this framework is a general guide, and the specific steps and considerations may vary based on the nature of the "LISTNER" project and the goals of your investigation.

If the "LISTNER" project has specific guidelines or objectives, be sure to align your investigation with those as well

How Chatbots Work



5.FLOWCHART



6.PROGRAM:

>>app.py

```
from flask import Flask, request, render_template
import pickle

app = Flask(__name__)
model = pickle.load(open('classification_rf.pkl', 'rb'))

@app.route('/')
def home():
    return render_template('index.html')

@app.route('/index', methods = ['POST'])
def pred():
    gender = request.form.get('gender')
    age = request.form.get('age')
    salary = request.form.get('salary')
    input = [[int(gender), int(age), float(salary)]]
    op = model.predict(input)
    print(op)
    return render_template('index.html', Output=str(op))

if __name__ == '__main__':
    app.run()
```

app.ibm.py

```
# Step 1 - Importing the required lib

from flask import Flask, request, render_template
import pickle

# Step 2 - Initializing the flask

app = Flask(__name__)
```

```

model = pickle.load(open('classification_rf.pkl', 'rb'))

# Step 3 - Routing to the templates with some functionalities
@app.route('/')
def home():
    return render_template('input.html')

@app.route('/input', methods = ['POST'])
def pred():
    gender = request.form.get('gender')
    age = request.form.get('age')
    salary = request.form.get('salary')
    input = [[int(gender), int(age), float(salary)]]
    import requests

    # NOTE: you must manually set API_KEY below using information
    retrieved from your IBM Cloud account.
    API_KEY = "tKA8XFb6dA2aoykejoO0UfWcXNfw-NS3Pc9t_vxSMW3I"
    token_response =
requests.post('https://iam.cloud.ibm.com/identity/token', data={"apikey":
API_KEY, "grant_type": 'urn:ibm:params:oauth:grant-type:apikey'})
    mltoken = token_response.json()["access_token"]

    header = {'Content-Type': 'application/json', 'Authorization': 'Bearer
' + mltoken}

    # NOTE: manually define and pass the array(s) of values to be scored in
the next line
    payload_scoring = {"input_data": [{"fields": ["Gender", "Age",
"EstimatedSalary"],
"values": [[int(gender), int(age),
float(salary)]]}]}

    response_scoring = requests.post('https://eu-
gb.ml.cloud.ibm.com/ml/v4/deployments/87cb8743-2a2c-4f8a-8d19-

```

```

fa56d49b86ed/predictions?version=2021-05-
01', json=payload_scoring, headers={'Authorization': 'Bearer ' + mltoken})
    print("Scoring response")
    print(response_scoring.json())
    op = response_scoring.json()
    print(op)
    return render_template('input.html', Output=str(op))

# Step 4 - Run the application

if __name__ == '__main__':
    app.run()

```

Website Page:

>>index.html

```

<html lang="en-US" class=" js cssanimations"><!--// OPEN HEAD //--><head>
<link rel="preload" href="https://www.publicwelfare.org/wp-
content/themes/socialdriver/css/fonts/fontawesome-webfont.woff2?v=4.3.0"
as="font" type="font/woff2" crossorigin="">
<link rel="preload" href="https://www.publicwelfare.org/wp-
content/themes/socialdriver/css/fonts/ss-gizmo.woff" as="font"
type="font/woff" crossorigin="">

<title>Apply For A Grant - Application Process | Public Welfare
Foundation</title>

<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-
scale=1">
<meta name="apple-mobile-web-app-title" content="Public
Welfare Foundation">

<!--// PINGBACK & FAVICON //-->

```

```

<link rel="pingback"
href="https://www.publicwelfare.org/xmlrpc.php">
<link rel="shortcut icon"
href="https://www.publicwelfare.org/wp-
content/uploads/2019/04/favicon.png">
<meta name="type" content="website">
<meta name="author" content="dfitzgerald">
<script type="text/javascript" async="" src="https://www.google-
analytics.com/analytics.js"></script><script type="text/javascript"
async="" src="https://www.googletagmanager.com/gtag/js?id=G-
L7PTCJT0RM&l=dataLayer&cx=c"></script><script
type="text/javascript" async="" defer=""
src="https://stats.wpmucdn.com/analytics.js"></script><script>function
spbImageResizer_writeCookie() {the_cookie=document.cookie,the_cookie&&windo
w.devicePixelRatio>=2&&(the_cookie="spb_image_resizer_pixel_ratio="+window
.devicePixelRatio+";" +the_cookie,document.cookie=the_cookie) }spbImageResiz
er_writeCookie();</script>
<script>
writeCookie();
function writeCookie() {
the_cookie = document.cookie;
if ( the_cookie ) {
if ( window.devicePixelRatio >= 2 ) {
the_cookie = "pixel_ratio=" + window.devicePixelRatio + ";"
+ the_cookie;
document.cookie = the_cookie;
//location = '';
}
}
}
</script>
<script>

```

```

window.watsonAssistantChatOptions = {
  integrationID: "9eb0d4b4-a03c-4c83-b5fe-f637c5b49d81", // The ID of
this integration.
  region: "au-syd", // The region your integration is hosted in.
  serviceInstanceID: "33476a92-d382-4a20-8702-1b355a77d8d3", // The ID
of your service instance.
  onLoad: function(instance) { instance.render(); }
};

setTimeout(function() {
  const t=document.createElement('script');
  t.src="https://web-
chat.global.assistant.watson.appdomain.cloud/versions/" +
(window.watsonAssistantChatOptions.clientVersion || 'latest') +
"/WatsonAssistantChatEntry.js";
  document.head.appendChild(t);
});
</script>

```

```

<meta name="robots" content="index, follow, max-image-preview:large,
max-snippet:-1, max-video-preview:-1">

```

```

<!-- This site is optimized with the Yoast SEO plugin v20.4 -
https://yoast.com/wordpress/plugins/seo/ -->

```

```

<meta name="description" content="Connect with Public Welfare Foundation
by submitting a Letter of Inquiry. Learn more about our online application
system here.">

```

```

<link rel="canonical" href="https://www.publicwelfare.org/grants/apply-
for-a-grant/">

```

```

<meta property="og:locale" content="en_US">

```

```

<meta property="og:type" content="article">

```

```

<meta property="og:title" content="Apply For A Grant - Application
Process | Public Welfare Foundation">

```

```

<meta property="og:description" content="Connect with Public Welfare
Foundation by submitting a Letter of Inquiry. Learn more about our online
application system here.">

```



```
<meta property="og:url"
content="https://www.publicwelfare.org/grants/apply-for-a-grant/">
<meta property="og:site_name" content="Public Welfare">
<meta property="article:publisher"
content="https://www.facebook.com/Public-Welfare-Foundation-
371167644067/">
<meta property="article:modified_time" content="2023-04-
13T15:43:47+00:00">
<meta property="og:image" content="https://www.publicwelfare.org/wp-
content/uploads/2019/04/Open-Graph-v2.png">
<meta property="og:image:width" content="1200">
<meta property="og:image:height" content="630">
<meta property="og:image:type" content="image/png">
<meta name="twitter:card" content="summary_large_image">
<meta name="twitter:site" content="@PublicWelfare">
<meta name="twitter:label1" content="Est. reading time">
<meta name="twitter:data1" content="5 minutes">
<meta name="twitter:label2" content="Written by">
<meta name="twitter:data2" content="dfitzgerald">
<script type="application/ld+json" class="yoast-schema-
graph">{"@context":"https://schema.org","@graph":[{"@type":"WebPage","@id"
:"https://www.publicwelfare.org/grants/apply-for-a-
grant/", "url":"https://www.publicwelfare.org/grants/apply-for-a-
grant/", "name":"Apply For A Grant - Application Process | Public Welfare
Foundation", "isPartOf":{"@id":"https://www.publicwelfare.org/#website"},"d
atePublished":"2019-03-13T01:38:07+00:00", "dateModified":"2023-04-
13T15:43:47+00:00", "description":"Connect with Public Welfare Foundation
by submitting a Letter of Inquiry. Learn more about our online application
system
here.", "breadcrumb":{"@id":"https://www.publicwelfare.org/grants/apply-
for-a-grant/#breadcrumb"}, "inLanguage":"en-
US", "potentialAction":[{"@type":"ReadAction", "target":["https://www.public
welfare.org/grants/apply-for-a-
grant/"]}]}], {"@type":"BreadcrumbList", "@id":"https://www.publicwelfare.org
/grants/apply-for-a-
grant/#breadcrumb", "itemListElement":[{"@type":"ListItem", "position":1, "na
```

```
me":"Home", "item":"https://www.publicwelfare.org/},{ "@type":"ListItem", "p
osition":2, "name":"Grants", "item":"https://www.publicwelfare.org/grants/"
, {"@type":"ListItem", "position":3, "name":"Apply for a
Grant"}]}, {"@type":"WebSite", "@id":"https://www.publicwelfare.org/#website
", "url":"https://www.publicwelfare.org/", "name":"Public
Welfare", "description":"","publisher":{"@id":"https://www.publicwelfare.or
g/#organization"}, "potentialAction":[{"@type":"SearchAction", "target":{"@t
ype":"EntryPoint", "urlTemplate":"https://www.publicwelfare.org/?s={search_
term_string}"}, "query-input":"required
name=search_term_string"}], "inLanguage":"en-
US"}, {"@type":"Organization", "@id":"https://www.publicwelfare.org/#organiz
ation", "name":"Public Welfare
Foundation", "url":"https://www.publicwelfare.org/", "logo":{"@type":"ImageO
bject", "inLanguage":"en-
US", "@id":"https://www.publicwelfare.org/#/schema/logo/image/", "url":"http
s://www.publicwelfare.org/wp-
content/uploads/2019/03/altpwfx2.png", "contentUrl":"https://www.publicwelf
are.org/wp-
content/uploads/2019/03/altpwfx2.png", "width":362, "height":110, "caption":"
Public Welfare
Foundation"}, "image":{"@id":"https://www.publicwelfare.org/#/schema/logo/i
mage/"},"sameAs":["https://www.facebook.com/Public-Welfare-Foundation-
371167644067/", "https://twitter.com/PublicWelfare", "http://instagram.com/p
ublicwelfare"]}]</script>
<!-- / Yoast SEO plugin. -->
```

```
<link rel="dns-prefetch" href="//fonts.googleapis.com">
<link rel="alternate" type="application/rss+xml" title="Public Welfare »
Feed" href="https://www.publicwelfare.org/feed/">
<link rel="alternate" type="application/rss+xml" title="Public Welfare »
Comments Feed" href="https://www.publicwelfare.org/comments/feed/">
<link rel="stylesheet" id="contact-form-7-css"
href="https://www.publicwelfare.org/wp-content/plugins/contact-form-
7/includes/css/styles.css?ver=5.7.7" media="all">
<link rel="stylesheet" id="spb-frontend-min-css"
```

```
href="https://www.publicwelfare.org/wp-content/plugins/socialdriver-  
framework/includes/page-builder/frontend-assets/css/spb-styles.min.css"  
media="all">  
<link rel="stylesheet" id="swift-slider-min-css"  
href="https://www.publicwelfare.org/wp-content/plugins/socialdriver-  
framework/includes/swift-slider/assets/css/swift-slider.min.css"  
media="all">  
<link rel="stylesheet" id="tablepress-default-css"  
href="https://www.publicwelfare.org/wp-  
content/plugins/tablepress/css/build/default.css?ver=2.1.5" media="all">  
<link rel="stylesheet" id="theme-style-css"  
href="https://www.publicwelfare.org/wp-content/themes/publicwelfare-  
child/css/style.min.css" media="all">  
<link rel="stylesheet" id="socialdriver-style-css"  
href="https://www.publicwelfare.org/wp-  
content/themes/socialdriver/css/style.min.css" media="all">  
<link rel="stylesheet" id="redux-google-fonts-sf_socialdriver_options-css"  
href="https://fonts.googleapis.com/css?family=Source+Sans+Pro%3A400&ve  
r=1665441252" media="all">  
<script src="https://www.publicwelfare.org/wp-  
includes/js/jquery/jquery.min.js?ver=3.6.4" id="jquery-core-js"></script>  
<script src="https://www.publicwelfare.org/wp-includes/js/jquery/jquery-  
migrate.min.js?ver=3.4.0" id="jquery-migrate-js"></script>  
<link rel="https://api.w.org/" href="https://www.publicwelfare.org/wp-  
json/"><link rel="alternate" type="application/json"  
href="https://www.publicwelfare.org/wp-json/wp/v2/pages/5895"><link  
rel="EditURI" type="application/rsd+xml" title="RSD"  
href="https://www.publicwelfare.org/xmlrpc.php?rsd">  
<link rel="wlwmanifest" type="application/wlwmanifest+xml"  
href="https://www.publicwelfare.org/wp-includes/wlwmanifest.xml">  
<link rel="shortlink" href="https://www.publicwelfare.org/?p=5895">  
<link rel="alternate" type="application/json+oembed"  
href="https://www.publicwelfare.org/wp-  
json/oembed/1.0/embed?url=https%3A%2F%2Fwww.publicwelfare.org%2Fgrants%2Fa  
pply-for-a-grant%2F">  
<link rel="alternate" type="text/xml+oembed"
```

```

href="https://www.publicwelfare.org/wp-
json/oembed/1.0/embed?url=https%3A%2F%2Fwww.publicwelfare.org%2Fgrants%2Fa
pply-for-a-grant%2F&format=xml">

<script>

    var ajaxurl = 'https://www.publicwelfare.org/wp-admin/admin-
ajax.php';

</script>

<meta name="TagPages" content="1.64">

<!--BEGIN: TRACKING CODE MANAGER (v2.0.16) BY INTELLYP.COM IN HEAD/-->
<!-- Global site tag (gtag.js) - Google Analytics -->
<script async="" src="https://www.googletagmanager.com/gtag/js?id=UA-
67400921-1"></script>
<script>
    window.dataLayer = window.dataLayer || [];
    function gtag(){dataLayer.push(arguments);}
    gtag('js', new Date());

    gtag('config', 'UA-67400921-1');
</script>
<!--END: https://wordpress.org/plugins/tracking-code-manager IN HEAD/-->
<script>
    document.documentElement.className =
document.documentElement.className.replace( 'no-js', 'js' );
</script>
<style>
    .no-js img.lazyload { display: none; }
    figure.wp-block-image img.lazyloading { min-width: 150px; }
    .lazyload, .lazyloading { opacity: 0; }
    .lazyloaded {
        opacity: 1;
        transition: opacity 400ms;
        transition-delay: 0ms;
    }
</style>
<style>.recentcomments a{display:inline !important;padding:0

```

```
!important;margin:0 !important;}</style><!--[if lt IE 9]><script data-
cfasync="false" src="https://www.publicwelfare.org/wp-
content/themes/socialdriver/js/respond.js"></script><script data-
cfasync="false" src="https://www.publicwelfare.org/wp-
content/themes/socialdriver/js/html5shiv.js"></script><script data-
cfasync="false" src="https://www.publicwelfare.org/wp-
content/themes/socialdriver/js/excanvas.compiled.js"></script><![endif]--
><style>
```

```
/*===== User Custom CSS Styles =====*/
.swift-slider .swiper-wrapper .swiper-slide .caption-wrap .caption-content
.caption-title
{
    color: white;
}</style>
```

```
<!-- BEGIN Typekit Fonts for WordPress -->
<link rel="stylesheet" href="https://use.typekit.net/jry0wud.css">
<!-- END Typekit Fonts for WordPress -->
```

```
<style title="dynamic-css" class="options-output">body,p{font-
family:"Source Sans Pro";line-height:20px;font-weight:400;font-
style:normal;font-size:14px;}h1,.impact-text,.impact-text-large{font-
family:"Source Sans Pro";line-height:34px;font-weight:400;font-
style:normal;font-size:24px;}h2,.blog-item .quote-excerpt{font-
family:"Source Sans Pro";line-height:30px;font-weight:400;font-
style:normal;font-size:20px;}h3{font-family:"Source Sans Pro";line-
height:24px;font-weight:400;font-style:normal;font-size:18px;}h4{font-
family:"Source Sans Pro";line-height:20px;font-weight:400;font-
style:normal;font-size:16px;}h5{font-family:"Source Sans Pro";line-
height:18px;font-weight:400;font-style:normal;font-size:14px;}h6{font-
family:"Source Sans Pro";line-height:16px;font-weight:400;font-
style:normal;font-size:12px;}#main-nav, #header nav, #vertical-nav nav,
.header-9#header-section #main-nav, #overlay-menu nav, #mobile-menu, #one-
page-nav li .hover-caption{font-family:"Source Sans Pro";font-
```

```
weight:400;font-style:normal;font-size:18px;}</style>
```

```
<!--[if gte IE 9]>
```

```
<style>
```

```
.gradient {
```

```
filter: none;
```

```
}
```

```
</style>
```

```
<![endif]-->
```

```
<!--// CLOSE HEAD //-->
```

```
<link
```

```
href="https://fonts.googleapis.com/css?family=Open+Sans&display=swap"
```

```
rel="stylesheet"><style type="text/css">.lf-progress {
```

```
-webkit-appearance: none;
```

```
-moz-appearance: none;
```

```
width: 100%;
```

```
/* margin: 0 10px; */
```

```
height: 4px;
```

```
border-radius: 3px;
```

```
cursor: pointer;
```

```
}
```

```
.lf-progress:focus {
```

```
outline: none;
```

```
border: none;
```

```
}
```

```
.lf-progress::-moz-range-track {
```

```
cursor: pointer;
```

```
background: none;
```

```
border: none;
```

```
outline: none;
```

```
}
```

```
.lf-progress::-webkit-slider-thumb {
```

```
-webkit-appearance: none !important;
```

```
height: 13px;
```

```
width: 13px;
```

```
border: 0;
border-radius: 50%;
background: #0fcce;
cursor: pointer;
}

.lf-progress::-moz-range-thumb {
  -moz-appearance: none !important;
  height: 13px;
  width: 13px;
  border: 0;
  border-radius: 50%;
  background: #0fcce;
  cursor: pointer;
}

.lf-progress::-ms-track {
  width: 100%;
  height: 3px;
  cursor: pointer;
  background: transparent;
  border-color: transparent;
  color: transparent;
}

.lf-progress::-ms-fill-lower {
  background: #ccc;
  border-radius: 3px;
}

.lf-progress::-ms-fill-upper {
  background: #ccc;
  border-radius: 3px;
}

.lf-progress::-ms-thumb {
  border: 0;
  height: 15px;
  width: 15px;
  border-radius: 50%;
  background: #0fcce;
```

```
    cursor: pointer;
}

.lf-progress:focus::-ms-fill-lower {
    background: #ccc;
}

.lf-progress:focus::-ms-fill-upper {
    background: #ccc;
}

.lf-player-container :focus {
    outline: 0;
}

.lf-popover {
    position: relative;
}

.lf-popover-content {
    display: inline-block;
    position: absolute;
    opacity: 1;
    visibility: visible;
    transform: translate(0, -10px);
    box-shadow: 0 2px 5px 0 rgba(0, 0, 0, 0.26);
    transition: all 0.3s cubic-bezier(0.75, -0.02, 0.2, 0.97);
}

.lf-popover-content.hidden {
    opacity: 0;
    visibility: hidden;
    transform: translate(0, 0px);
}

.lf-player-btn-container {
    display: flex;
    align-items: center;
}

.lf-player-btn {
```



```
    cursor: pointer;
    fill: #999;
    width: 14px;
}
```

```
.lf-player-btn.active {
    fill: #555;
}
```

```
.lf-popover {
    position: relative;
}
```

```
.lf-popover-content {
    display: inline-block;
    position: absolute;
    background-color: #ffffff;
    opacity: 1;
```

```
    transform: translate(0, -10px);
    box-shadow: 0 2px 5px 0 rgba(0, 0, 0, 0.26);
    transition: all 0.3s cubic-bezier(0.75, -0.02, 0.2, 0.97);
    padding: 10px;
}
```

```
.lf-popover-content.hidden {
    opacity: 0;
    visibility: hidden;
    transform: translate(0, 0px);
}
```

```
.lf-arrow {
    position: absolute;
    z-index: -1;
    content: '';
    bottom: -9px;
```

```
border-style: solid;
border-width: 10px 10px 0px 10px;
}
```

```
.lf-left-align,
.lf-left-align .lfarrow {
  left: 0;
  right: unset;
}
```

```
.lf-right-align,
.lf-right-align .lf-arrow {
  right: 0;
  left: unset;
}
```

```
.lf-text-input {
  border: 1px #ccc solid;
  border-radius: 5px;
  padding: 3px;
  width: 60px;
  margin: 0;
}
```

```
.lf-color-picker {
  display: flex;
  flex-direction: row;
  justify-content: space-between;
  height: 90px;
}
```

```
.lf-color-selectors {
  display: flex;
  flex-direction: column;
  justify-content: space-between;
}
```

```
.lf-color-component {  
  display: flex;  
  flex-direction: row;  
  font-size: 12px;  
  align-items: center;  
  justify-content: center;  
}
```

```
.lf-color-component strong {  
  width: 40px;  
}
```

```
.lf-color-component input[type='range'] {  
  margin: 0 0 0 10px;  
}
```

```
.lf-color-component input[type='number'] {  
  width: 50px;  
  margin: 0 0 0 10px;  
}
```

```
.lf-color-preview {  
  font-size: 12px;  
  display: flex;  
  flex-direction: column;  
  align-items: center;  
  justify-content: space-between;  
  padding-left: 5px;  
}
```

```
.lf-preview {  
  height: 60px;  
  width: 60px;  
}
```

```

.lf-popover-snapshot {
  width: 150px;
}
.lf-popover-snapshot h5 {
  margin: 5px 0 10px 0;
  font-size: 0.75rem;
}
.lf-popover-snapshot a {
  display: block;
  text-decoration: none;
}
.lf-popover-snapshot a:before {
  content: '←';
  margin-right: 5px;
}
.lf-popover-snapshot .lf-note {
  display: block;
  margin-top: 10px;
  color: #999;
}
.lf-player-controls > div {
  margin-right: 5px;
  margin-left: 5px;
}
.lf-player-controls > div:first-child {
  margin-left: 0px;
}
.lf-player-controls > div:last-child {
  margin-right: 0px;
}
</style><style id="_goober"> @keyframes
go2264125279{from{transform:scale(0)
rotate(45deg);opacity:0;}to{transform:scale(1)
rotate(45deg);opacity:1;}}@keyframes
go3020080000{from{transform:scale(0);opacity:0;}to{transform:scale(1);opac
ity:1;}}@keyframes go463499852{from{transform:scale(0)

```

```
rotate(90deg);opacity:0;}to{transform:scale(1)
rotate(90deg);opacity:1;}}@keyframes
go1268368563{from{transform:rotate(0deg);}to{transform:rotate(360deg);}}@k
eyframes go1310225428{from{transform:scale(0)
rotate(45deg);opacity:0;}to{transform:scale(1)
rotate(45deg);opacity:1;}}@keyframes
go651618207{0%{height:0;width:0;opacity:0;}40%{height:0;width:6px;opacity:
1;}100%{opacity:1;height:10px;}}@keyframes
go901347462{from{transform:scale(0.6);opacity:0.4;}to{transform:scale(1);o
pacity:1;}}.go4109123758{z-index:9999;}.go4109123758 > *{pointer-
events:auto;}</style></head>
```

```
<!--// OPEN BODY //-->
<body class="page-template-default page page-id-5895 page-child parent-
pageid-5765 minimal-design header-5 header-5-overlay mobile-header-left-
logo mhs-tablet-land mh-slideout responsive-fluid product-shadows layout-
fullwidth page-heading- disable-mobile-animations slideout-right swift-
framework-v2.5.53 social-driver-child-theme-v2018 standard-browser page-
loaded pace-done" data-new-gr-c-s-check-loaded="14.1122.0" data-gr-ext-
installed=""><div id="pronounceRootElement"
class="pronounceRootElementItem" style="position: fixed; top: 0px; left:
0px; width: 1px; height: 1px; z-index: 2147483645;"><div
id="pronounceRootElementInner"></div></div><div class="pace pace-
inactive"><div class="pace-progress" data-progress-text="100%" data-
progress="99" style="transform: translate3d(100%, 0px, 0px);">
<div class="pace-progress-inner"></div>
</div>
<div class="pace-activity"></div></div>
```

```
<!--// OPEN #container //-->
<div id="container" class=" clearfix">

<header id="mobile-header" class="mobile-left-logo clearfix">
```

```
<div id="mobile-logo" class="logo-left has-svg clearfix">
<a href="https://www.publicwelfare.org" title="Go to Public Welfare Home."
rel="home">
<span class="accessibility-text">Go to Public Welfare Home</span> <div
class="logo-svg-container" aria-hidden="true"><svg
xmlns="http://www.w3.org/2000/svg" height="55" viewBox="0 0 181 55"
width="181" class="injected-svg inject-me" data-
src="https://www.publicwelfare.org/wp-content/themes/publicwelfare-
child/images/logo.svg"><text style="fill:#fff;fill-rule:evenodd;font-
family:PoynterOSDisp-Bold, PoynterOSDisp;font-size:28.8;font-
weight:bold;letter-spacing:-.476" transform="translate(-61 -54)"><tspan
x="61" y="77">Public Welfare</tspan> <tspan x="61"
y="109.4">Foundation</tspan></text></svg></div>
</a>
</div>

<div class="mobile-header-opts"><a href="#" class="mobile-menu-link menu-
bars-link" role="button" aria-label="menu"><span class="menu-
bars"></span></a>
</div></header>

<!--// HEADER //-->

<div class="header-wrap full-center full-header-stick page-header-
">

<div id="header-section" class="header-5 clearfix">

<header id="header" class="sticky-header clearfix" style="position:
relative; top: 0px;">
<div class="container">
<div class="row top-row">

<div class="header-right">
<nav id="social-icons-navigation" class="social-icons standard
clearfix" aria-label="social channels main menu">
<ul itemscope="" itemtype="http://schema.org/Organization">
```

```
<li class="website"><link itemprop="url"
href="https://www.publicwelfare.org"></li>
<li class="twitter">
<a itemprop="sameAs" href="http://www.twitter.com/PublicWelfare"
target="_blank" title="Go to Public Welfare Twitter Channel."><span
class="accessibility-text">Twitter Channel</span><i class="fa fa-twitter"
aria-hidden="true"></i></a>
</li>
<li class="facebook">
<a itemprop="sameAs" href="https://www.facebook.com/Public-
Welfare-Foundation-371167644067/" target="_blank" title="Go to Public
Welfare Facebook Profile."><span class="accessibility-text">Facebook
Profile</span><i class="fa fa-facebook" aria-hidden="true"></i></a>
</li>
<li class="instagram">
<a itemprop="sameAs" href="http://instagram.com/publicwelfare"
target="_blank" title="Go to Public Welfare Instagram Profile."><span
class="accessibility-text">Instagram Profile</span><i class="fa fa-
instagram" aria-hidden="true"></i></a>
</li>
</ul>
</nav>
</div>
</body>
</html>
```

7.RESULT:

IBM Cloud

Search resources and products...

Q

Catalog

Manage

RAJA SOLAI's Account

?

Dashboard

Edit dashboard

Upgrade account

Create resource

For you

Select an option

Build

Explore IBM Cloud with this selection of easy starter tutorials and services.

Db2

Get enterprise-level OLTP performance, 99.99% uptime SLA, automatic backups, compliance options and encryption at rest with Db2.

Popular

2 min

Build with Watson

Chatbots, insights, recognizers, and more. Explore the AI platform for business.

Popular

3 min

Explore IBM Cloud Shell

Try a command-driven approach for creating, developing, and deploying a web project.

Getting started

2 min

Get Started with Watson Studio

Get started with using AI and Cloud Object Storage in 15 minutes.

Popular

2 hr

Use Sp

Easily c

voice ir

for voi

transcr

Speech

Popula

User access

Manage users

Enter email addresses below to jump directly into the invite user setup:

News

View all

Accessing your on-premises network and IBM Cloud VPC using a single VPN connection

Planned maintenance

View all

IBM Cloud

Search resources and products...

Q

Catalog

Manage

RAJA SOLAI's Account

?

Catalog /

Watson Assistant

Watson Assistant lets you build conversational interfaces into any application, device, or channel.

Create

About

Type

Service

Provider

IBM

Last updated

05/30/2023

Category

AI / Machine Learning

Compliance

EU Supported

HIPAA Enabled

IAM-enabled

Location

Sydney

Product

Select a location

Sydney (au-syd)

Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

Plan	Features and capabilities	Pricing
Lite	Everything you need to get started, free for as long as you need it Up to 1,000 unique monthly active users (MAUs) chatting with your assistant Up to 10,000 messages per month --- Features ---	Free

Summary

Watson Assistant

Free

Location: Sydney

Plan: Lite

Service name: Watson Assistant-fk

Resource group: Default

Existing Lite plan instance

You can have only 1 Lite plan instance of this service per resource group. [Delete](#) your current Lite plan instance in Default resource group to create a new one, or [view the existing instance](#).

☐ I have read and agree to the following license agreements:
[Terms](#)

Create

IBM Cloud

Search resources and products...

Q

Catalog

Manage

RAJA SOLAI's Account

?

Resource list /

Watson Assistant-qd

Active

Add tags

Details

Actions...

Manage

Service credentials

Plan

Connections

Start by launching the tool

Launch Watson Assistant

Getting started tutorial

API reference

Plan

Lite

Upgrade

Credentials

Download

Show credentials

API key:

.....

URL:

https://api.au-syd.assistant.watson.cloud.ibm.com/instan

IBM Watson Assistant Lite Upgrade Public welfare ... Learning resources

Actions

All items

Created by you

Set by assistant

Variables

Created by you

Set by assistant

Set by integration

Saved responses

Created by you /

Filter by name

<input type="checkbox"/>	Name	Last edited	Examples count
<input type="checkbox"/>	Please Tell Me What A Chat Bot Is.	2 days ago	1
<input type="checkbox"/>	How Do Chat Bots Differ From Search Engi...	2 days ago	1
<input type="checkbox"/>	How Important Is It To Input Accurate An...	2 days ago	1
<input type="checkbox"/>	What Types Of Inquires Can Chat Bots Res...	2 days ago	1
<input type="checkbox"/>	Does GIGO Impact The Analysis Of A Chat ...	2 days ago	1
<input type="checkbox"/>	Can Chatbots Analyze Data And Make Rec...	2 days ago	1

Items per page: 50 Showing 1-7 of 7 items

Preview

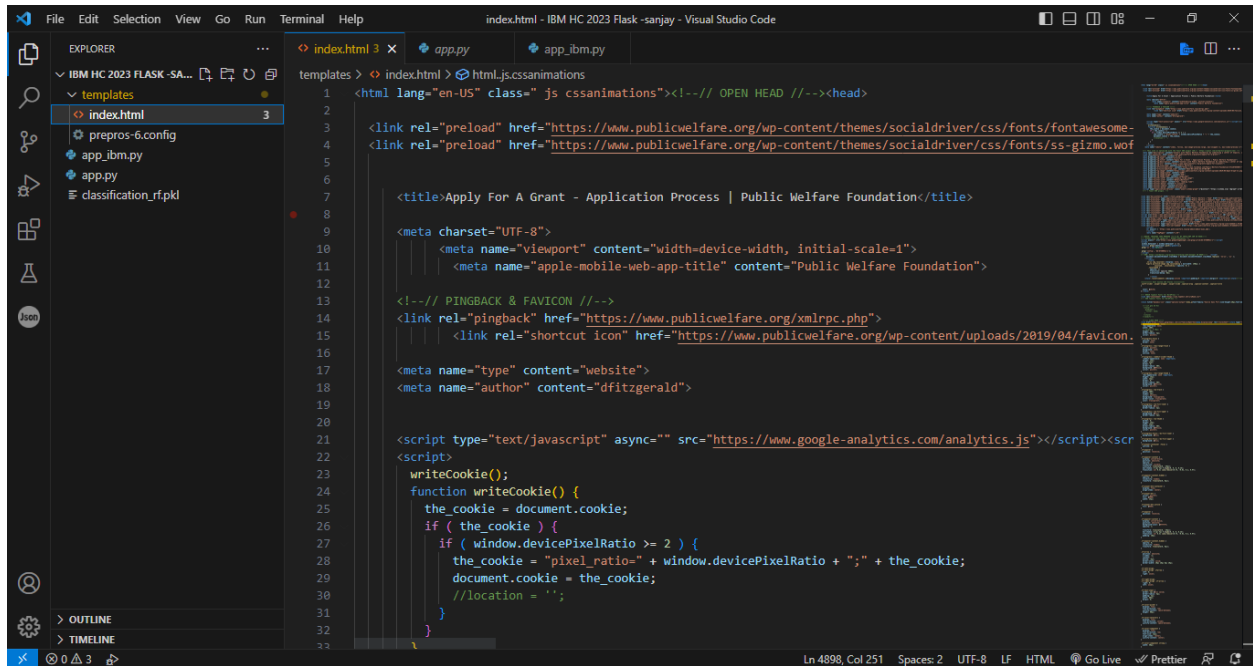
Greet customer [default]

Welcome, how can I assist you?

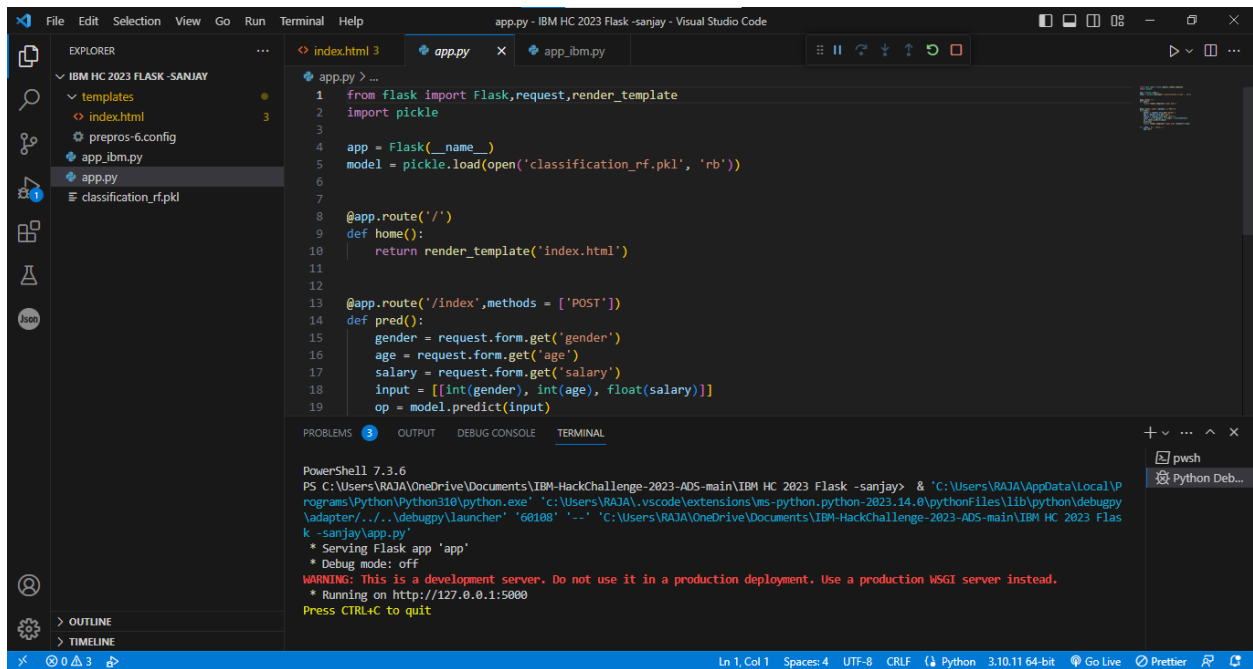
Type something...

```
1 from flask import Flask,request,render_template
2 import pickle
3
4 app = Flask(__name__)
5 model = pickle.load(open('classification_rf.pkl', 'rb'))
6
7
8 @app.route('/')
9 def home():
10     return render_template('index.html')
11
12
13 @app.route('/index',methods = ['POST'])
14 def pred():
15     gender = request.form.get('gender')
16     age = request.form.get('age')
17     salary = request.form.get('salary')
18     input = [[int(gender), int(age), float(salary)]]
19     op = model.predict(input)
20     print(op)
21     return render_template('index.html',Output=str(op))
22
23 if __name__ == '__main__':
24     app.run()
```

```
1 # Step 1 - Importing the required lib
2
3 from flask import Flask,request,render_template
4 import pickle
5
6 # Step 2 - Initializing the flask
7
8 app = Flask(__name__)
9 model = pickle.load(open('classification_rf.pkl', 'rb'))
10
11 # Step 3 - Routing to the templates with some functionalities
12 @app.route('/')
13 def home():
14     return render_template('input.html')
15
16
17 @app.route('/input',methods = ['POST'])
18 def pred():
19     gender = request.form.get('gender')
20     age = request.form.get('age')
21     salary = request.form.get('salary')
22     input = [[int(gender), int(age), float(salary)]]
23     import requests
24
25     # NOTE: you must manually set API_KEY below using information retrieved from your IBM Cloud account.
26     API_KEY = "tkABXf6dA2aoykejo00UfwcXNfw-NS3Pc9t_vxSfMzBI"
27     token_response = requests.post('https://iam.cloud.ibm.com/identity/token', data={"apikey": API_KEY,"grant_ty
28     mltoken = token_response.json()["access_token"]
29
30     header = {'Content-Type': 'application/json', 'Authorization': 'Bearer ' + mltoken}
31
32     # NOTE: manually define and pass the array(s) of values to be scored in the next line
33     payload_scoring = {"input_data": [{"fields": [{"gender": "Male", "age": "EstimatedSalary"}]}
```



```
1 <html lang="en-US" class="js cssanimations"><!--// OPEN HEAD //--><head>
2
3 <link rel="preload" href="https://www.publicwelfare.org/wp-content/themes/socialdriver/css/fonts/fontawesome-
4 <link rel="preload" href="https://www.publicwelfare.org/wp-content/themes/socialdriver/css/fonts/ss-gizmo.woff
5
6
7
8 <title>Apply For A Grant - Application Process | Public Welfare Foundation</title>
9
10 <meta charset="UTF-8">
11 <meta name="viewport" content="width=device-width, initial-scale=1">
12 <meta name="apple-mobile-web-app-title" content="Public Welfare Foundation">
13
14 <!--// PINGBACK & FAVICON //-->
15 <link rel="pingback" href="https://www.publicwelfare.org/xmlrpc.php">
16 <link rel="shortcut icon" href="https://www.publicwelfare.org/wp-content/uploads/2019/04/favicon.
17
18 <meta name="type" content="website">
19 <meta name="author" content="dfitzgerald">
20
21
22 <script type="text/javascript" async="" src="https://www.google-analytics.com/analytics.js"></script><scr
23 <script>
24 writeCookie();
25 function writeCookie() {
26   the_cookie = document.cookie;
27   if ( the_cookie ) {
28     if ( window.devicePixelRatio >= 2 ) {
29       the_cookie = "pixel_ratio=" + window.devicePixelRatio + ";" + the_cookie;
30       document.cookie = the_cookie;
31       //location = '';
32     }
33   }
34 }
```



```
1 from flask import Flask,request,render_template
2 import pickle
3
4 app = Flask(__name__)
5 model = pickle.load(open('classification_rf.pkl', 'rb'))
6
7
8 @app.route('/')
9 def home():
10     return render_template('index.html')
11
12
13 @app.route('/index',methods = ['POST'])
14 def pred():
15     gender = request.form.get('gender')
16     age = request.form.get('age')
17     salary = request.form.get('salary')
18     input = [[int(gender), int(age), float(salary)]]
19     op = model.predict(input)
```

PowerShell 7.3.6

PS C:\Users\RAJA\OneDrive\Documents\IBM-HackChallenge-2023-ADS-main\IBM HC 2023 Flask -sanjay> & 'C:\Users\RAJA\AppData\Local\Programs\Python\Python310\python.exe' 'C:\Users\RAJA\.vscode\extensions\ms-python.python-2023.14.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '60108' '-.' 'C:\Users\RAJA\OneDrive\Documents\IBM-HackChallenge-2023-ADS-main\IBM HC 2023 Flask -sanjay\app.py'

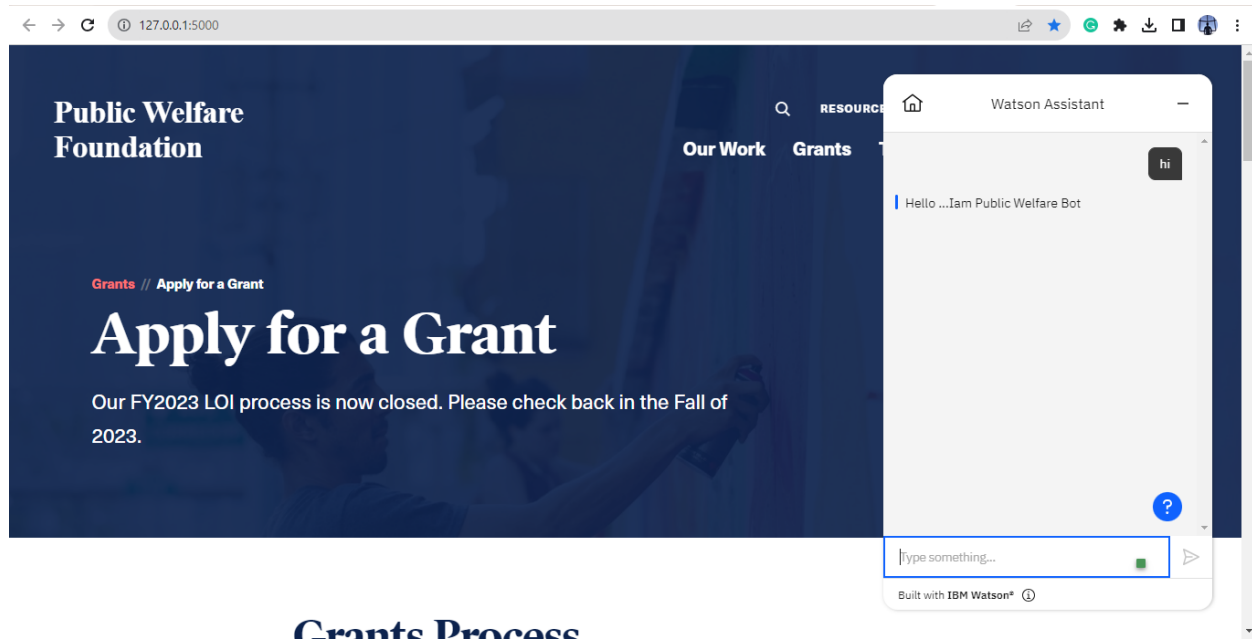
* Serving Flask app 'app'

* Debug mode: off

WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.

* Running on http://127.0.0.1:5000

Press CTRL+C to quit



7. ADVANTAGES & DISADVANTAGES

Advantages:

Chatbots are available 24/7, providing immediate support and information to users who may not have access to human assistance at all times.

It's important to note that the effectiveness of an AI-based chatbot integration like "LISTNER" would depend on the quality of its design, development, and implementation.

The specific advantages would also be influenced by the goals and scope of the project.

Chatbots provide consistent responses, eliminating the potential for human errors or inconsistencies in information provided.

8.APPLICATIONS:

Community Engagement:

Share information about local events, workshops, volunteer opportunities, and community initiatives.

Weather Updates:

Deliver real-time weather forecasts and alerts to help users prepare for changing weather conditions.

Government Services:

Guide users through government services, such as tax filing, applying for IDs, and accessing public records.

Accessibility Services:

Assist users with disabilities by providing information about accessible facilities, services, and resources.

Consumer Information:

Offer information about consumer rights, product recalls, and safe purchasing practices.

Safety Tips:

Provide safety tips for various situations, such as natural disasters, accidents, and public health concerns.

Youth and Family Support:

Offer guidance to parents and caregivers on parenting, child development, and family resources.

Elderly Support:

Provide information about senior citizen benefits, retirement planning, and resources for the elderly.

Homelessness and Shelter Information:

Connect homeless individuals with resources for shelter, food, and support services.

Public Health Information:

Share information about disease prevention, vaccination schedules, and public health campaigns.

9.Community Feedback:

Act as a conduit for gathering feedback from users to improve public services and identify areas of concern.the target audience and the goals of the public welfare initiative.

The success of the chatbot would depend on its ability to effectively address these applications while being user-friendly and accurate in its responses

10.CONCLUSION:

"LISTNER" could bridge gaps in accessibility by offering multilingual support and addressing the needs of individuals with disabilities, thus promoting inclusivity and equity. Its ability to continuously learn from user interactions ensures that its responses improve over time, adapting to the evolving requirements of the users and the public services it supports.In essence, "LISTNER" has the potential to become a valuable tool in the realm of public welfare, providing a holistic and user-centric approach to addressing societal challenges. By combining the capabilities of AI technology with a commitment to serving the needs of the public, "LISTNER" could pave the way for a more inclusive, efficient, and responsive approach to delivering essential services support to individuals from all walks of life.

11. BIBILOGRAPHY

<https://www.kaggle.com/datasets/meetnagadia/district-wise-mental-health-patients-20212022>

<https://dl.acm.org/doi/fullHtml/10.1145/3411764.3445565>

12.APPENDIX

A. Source Code

<https://github.com/smartinternz02/SBSPS-Challenge-10289-LISTNER---AI-based-Life-Assistance-Chatbot-Integration-for-public-welfare>