



**BHASKARACHARYA NATIONAL INSTITUTE FOR SPACE
APPLICATIONS AND GEO-INFORMATICS**

WEEKLY PROGRESS REPORT (01/01/2026 – 07/01/2026)

WEEK 1

PROJECT NAME

RAG CHATBOT

PROJECT DESCRIPTION:

an AI system that enhances a large language model (LLM) by retrieving relevant information from a knowledge base to generate accurate

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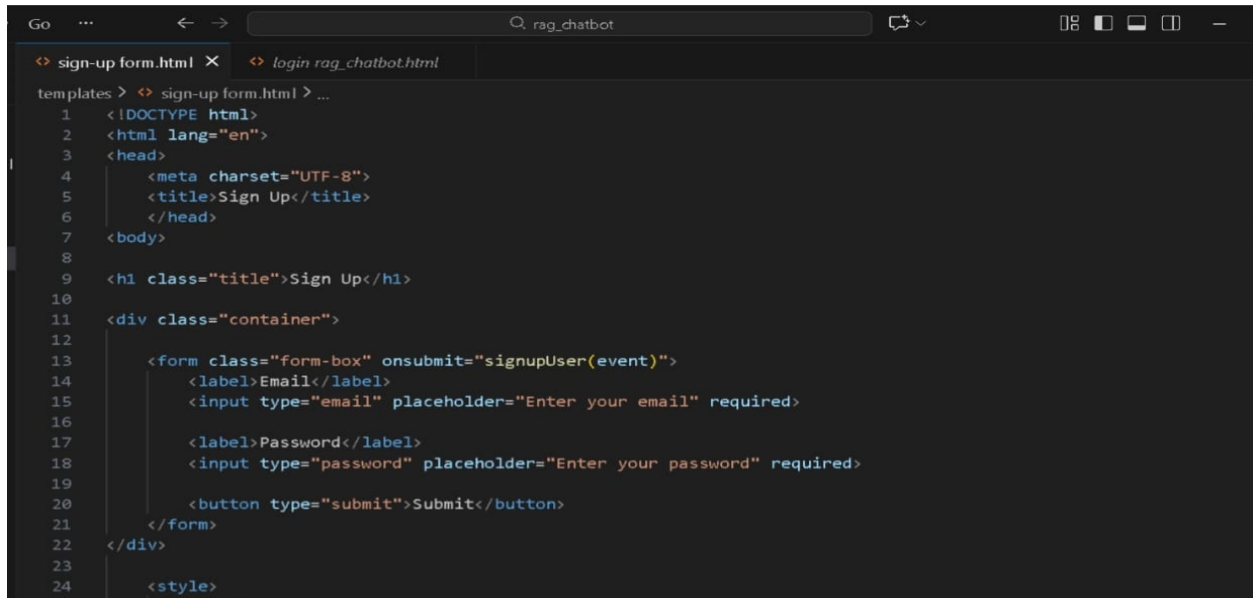
01/01/2026	<ul style="list-style-type: none"> • we learn a basic about a rag chatbot and search about a rag chatbot and do some practical for practice
02/01/2026	<ul style="list-style-type: none"> • Analyzed project requirements • Finalized features like login and chatbot • Defined project objectives
03/01/2026	<ul style="list-style-type: none"> • Learned basic architecture of RAG • Designed high-level system flow Identified frontend and backend modules
04/01/2026	<ul style="list-style-type: none"> • Holiday (Sunday)
05/01/2026	<ul style="list-style-type: none"> • Selected tools and technologies • Studied Python and Flask basics • Prepared development roadmap
06/01/2026	<ul style="list-style-type: none"> • Created project folder structure • Initialized Flask application • Tested basic server execution
07/01/2026	<ul style="list-style-type: none"> • After researching and planning everything about our project • We plan about to start the rag chatbot sign-up page

Next Week Plan	<ul style="list-style-type: none"> • We will start trying to create the login and sign-up page with the connection
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REFERENCE:

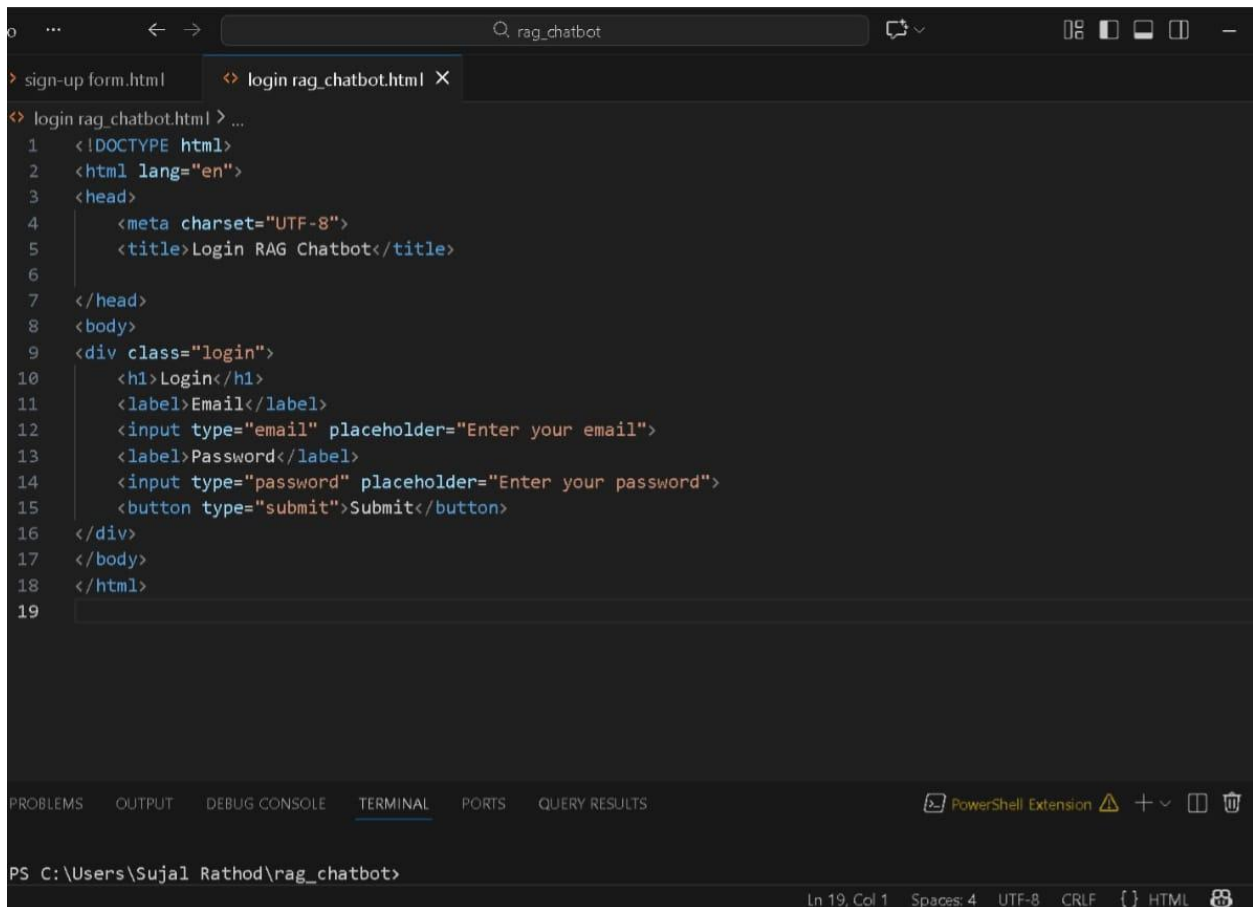
- <https://arxiv.org/abs/2005.11401>
- <https://docs.python.org/3/>
- <https://flask.palletsprojects.com/>
- https://scikit-learn.org/stable/modules/feature_extraction.html
- <https://www.geeksforgeeks.org/introduction-to-natural-language-processing/>

SCREEN SHOTS:



The screenshot shows the Visual Studio Code editor with the file 'sign-up form.html' open. The code is an HTML document for a sign-up form. It includes a DOCTYPE declaration, HTML lang attribute, and a head section with a meta charset and a title 'Sign Up'. The body contains a h1 'Sign Up' and a div 'container' which holds a form. The form has labels for 'Email' and 'Password', corresponding input fields with placeholders, and a 'Submit' button. The form's onsubmit event is set to 'signupUser(event)'.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Sign Up</title>
</head>
<body>
  <h1 class="title">Sign Up</h1>
  <div class="container">
    <form class="form-box" onsubmit="signupUser(event)">
      <label>Email</label>
      <input type="email" placeholder="Enter your email" required>
      <label>Password</label>
      <input type="password" placeholder="Enter your password" required>
      <button type="submit">Submit</button>
    </form>
  </div>
  <style>
```



The screenshot shows the Visual Studio Code editor with the file 'login rag_chatbot.html' open. The code is an HTML document for a login form. It includes a DOCTYPE declaration, HTML lang attribute, and a head section with a meta charset and a title 'Login RAG Chatbot'. The body contains a div 'login' which holds a h1 'Login', labels for 'Email' and 'Password', corresponding input fields with placeholders, and a 'Submit' button.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Login RAG Chatbot</title>
</head>
<body>
  <div class="login">
    <h1>Login</h1>
    <label>Email</label>
    <input type="email" placeholder="Enter your email">
    <label>Password</label>
    <input type="password" placeholder="Enter your password">
    <button type="submit">Submit</button>
  </div>
</body>
</html>
```

The bottom of the screenshot shows the terminal panel with the command prompt 'PS C:\Users\Sujal Rathod\rag_chatbot>' and the status bar indicating 'Ln 19, Col 1', 'Spaces: 4', 'UTF-8', 'CRLF', and 'HTML'.