

# NEXTURN

ENGINEER YOUR **AI** ON CLOUD



**TOPIC :**

**WEB BASED INTERACTIVE CHATBOT**

**FOR NEX**T**URN**

**1. USING NLP**

**2. USING LLM**

**PRESENTED BY :**

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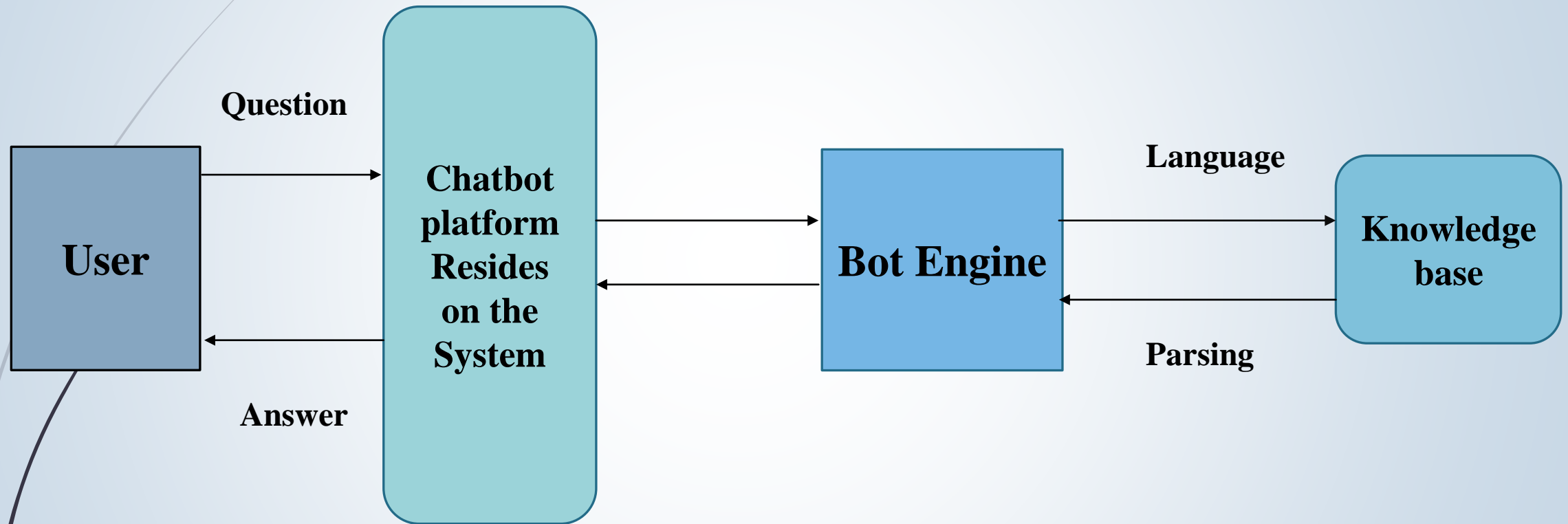
**MITTA VAMSI**



# SOLUTION OVERVIEW

- The web-based chatbot, powered by **RNN-based Deep Learning** with PyTorch models targeting small scale or individual organizations and **LLM** based used widely, serves as an effective tool for providing immediate assistance to users.
- It interacts with users through text or voice on corporate websites, aiming to address frequently asked questions and offer information promptly.

## ARCHITECTURE DESIGN - NLP



# OUTPUT - NLP

The screenshot shows a web browser window displaying the NexTurn website. The browser's address bar shows the URL `127.0.0.1:5000`. The website has a navigation bar with links: Home, About, Services, Careers, Knowledge Center, and Contact Us. The main content area features a large graphic with a network diagram and the text "Engineer your NexTurn on Cloud". Below this, a paragraph states: "We enable clients to navigate the paradigm shift in building and modernizing software products & platforms. Partner with us to accelerate your innovation & digital transformation journey by unlocking the power of cloud." A chatbot interface is overlaid on the right side of the page. The chatbot is titled "NeX-Bot" and "Chat Support 24x7". It has a "Select Language" dropdown menu. The chat history shows a greeting "hi" and a response "Hi, I'm Nex chatbot. How can I help you?". The user has asked "what is cne ?/" and the chatbot has responded with a paragraph about NexTurn's role as a partner of choice. The user has also asked "what nexturn do" and the chatbot has responded with a paragraph about working with clients in engineering their products and platforms. The chatbot has a "Write a message..." input field and a "Send" button. The Windows taskbar is visible at the bottom of the screen, showing the time as 17:37 on 13-02-2024.

**NexTurn**

Home About Services Careers Knowledge Center Contact Us

**Engineer your NexTurn on Cloud**

We enable clients to navigate the paradigm shift in building and modernizing software products & platforms. Partner with us to accelerate your innovation & digital transformation journey by unlocking the power of cloud.

**NeX-Bot**  
Chat Support  
24x7

Select Language

hi

Hi, I'm Nex chatbot. How can I help you?

what is cne ?/

As a partner of choice, NexTurn will help enhance customer experiences by accelerating your cloud initiatives

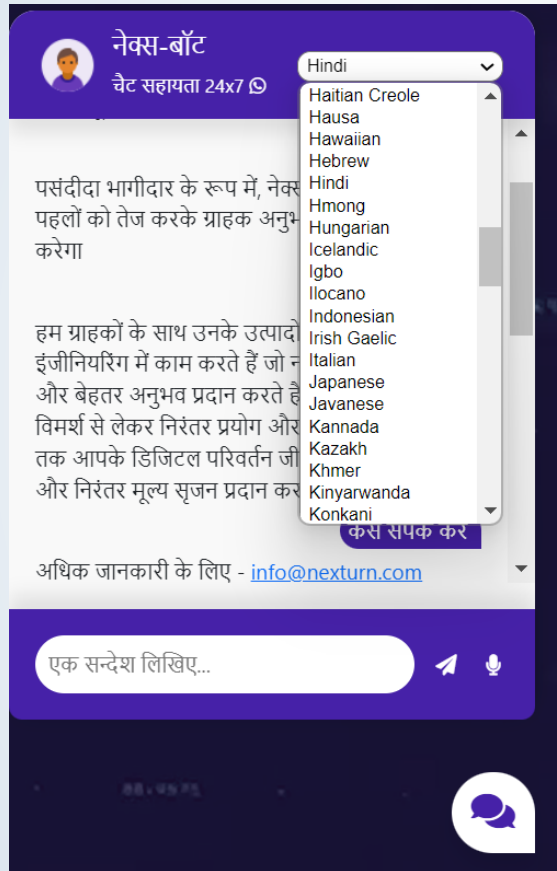
what nexturn do

We work with clients in engineering their Products and Platforms that generate new value and deliver enhanced experience. Our services are aligned with your digital transformation lifecycle from ideation to continuous

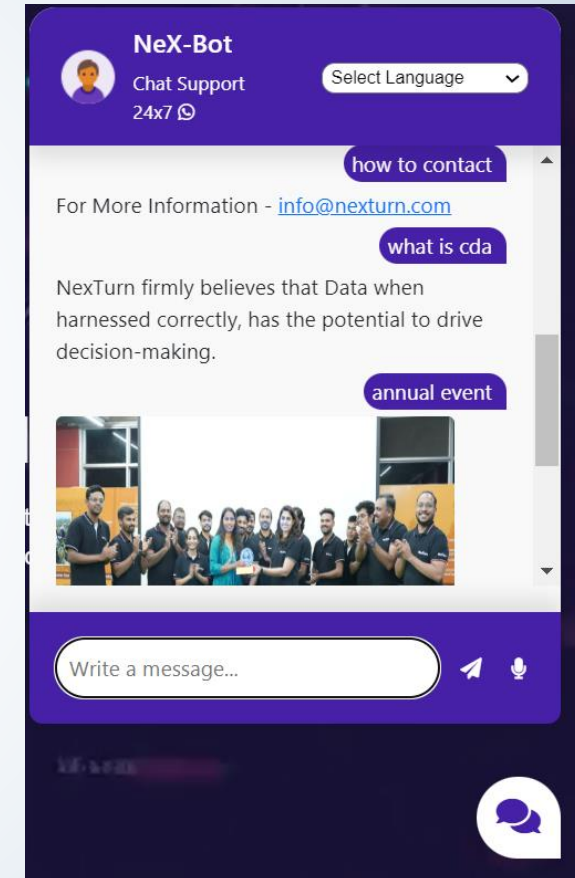
Write a message...

17:37  
13-02-2024

# OUTPUT - NLP



\*\* Here, We provided Translation and Voice Input System for User Convenience

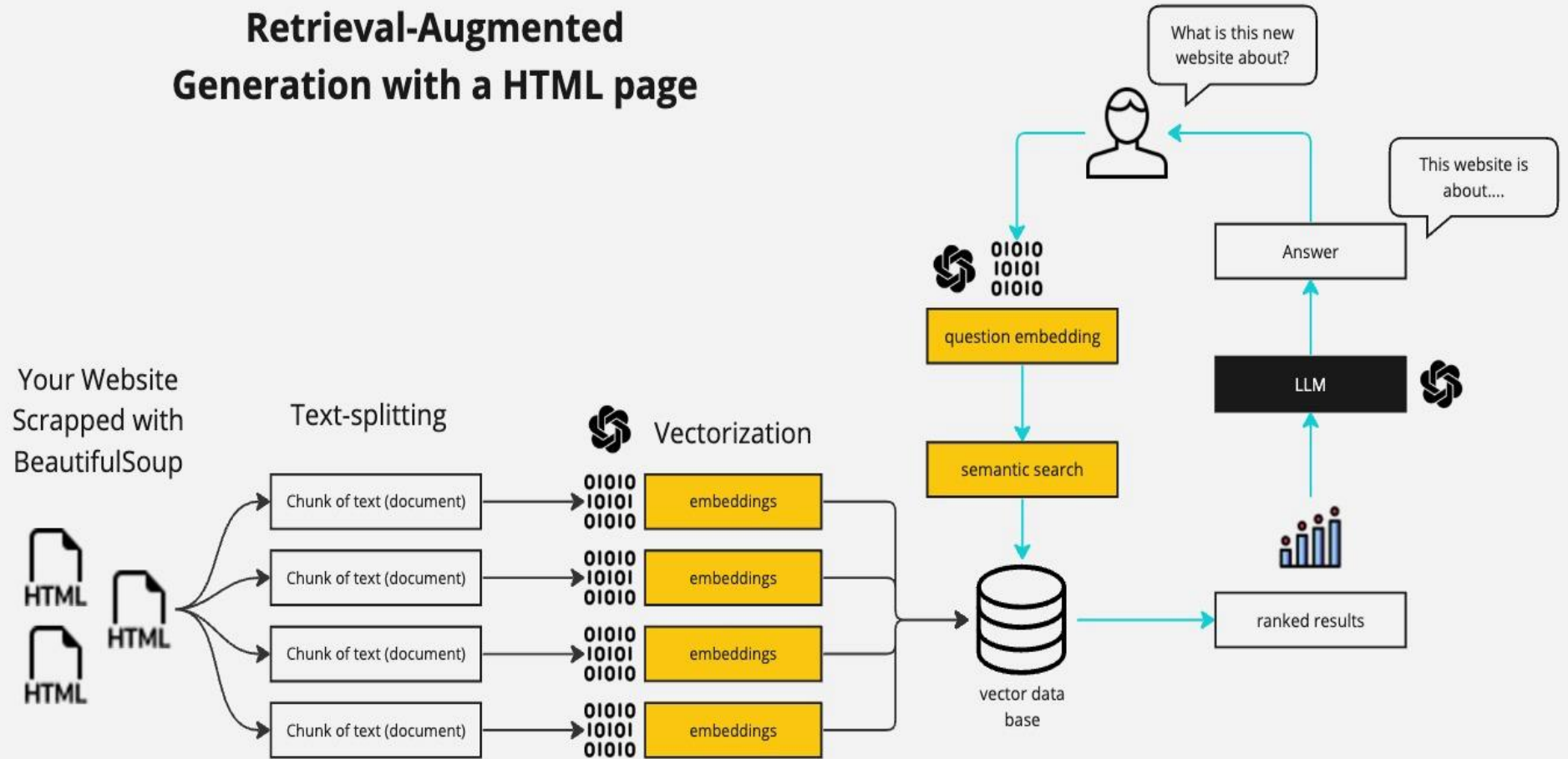


\*\* Here, We provided Multi Media Support to engage Users

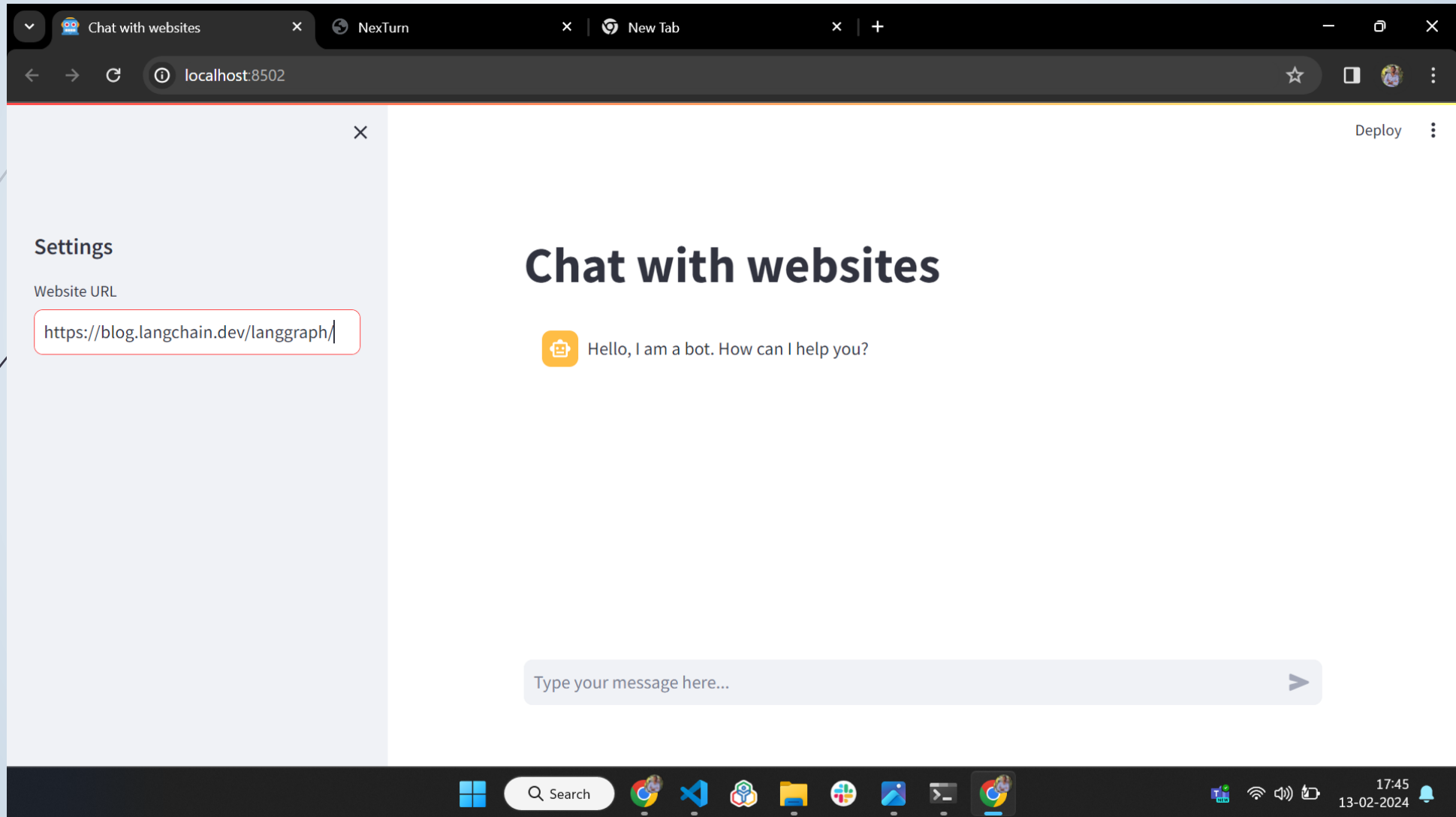


# ARCHITECTURE DESIGN - LLM

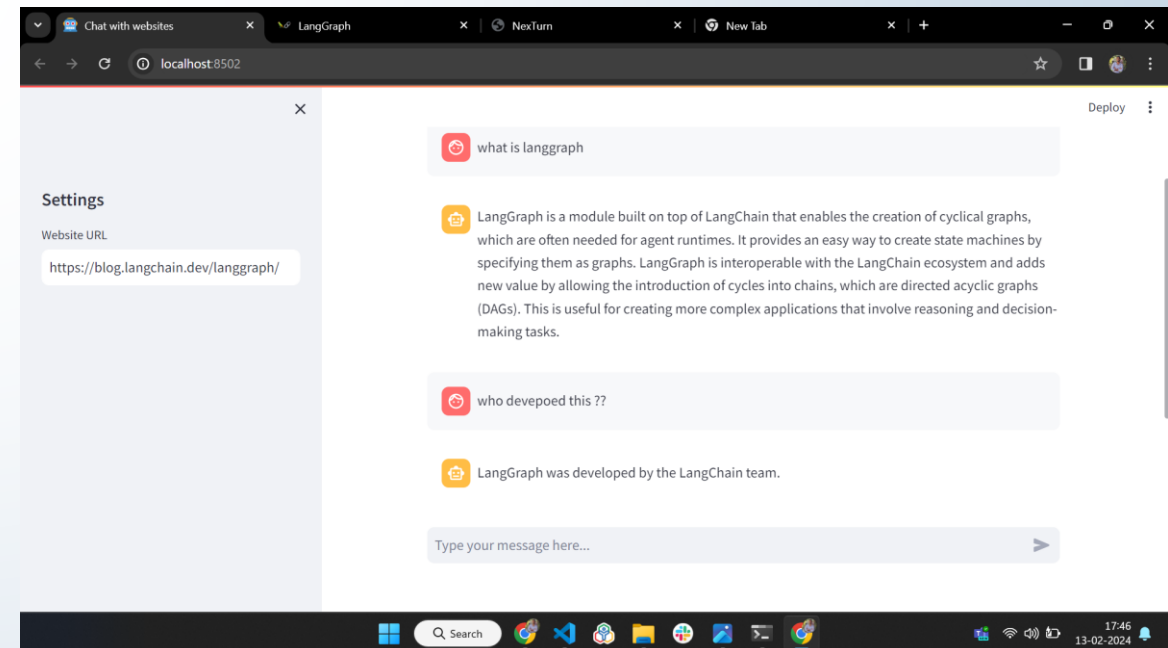
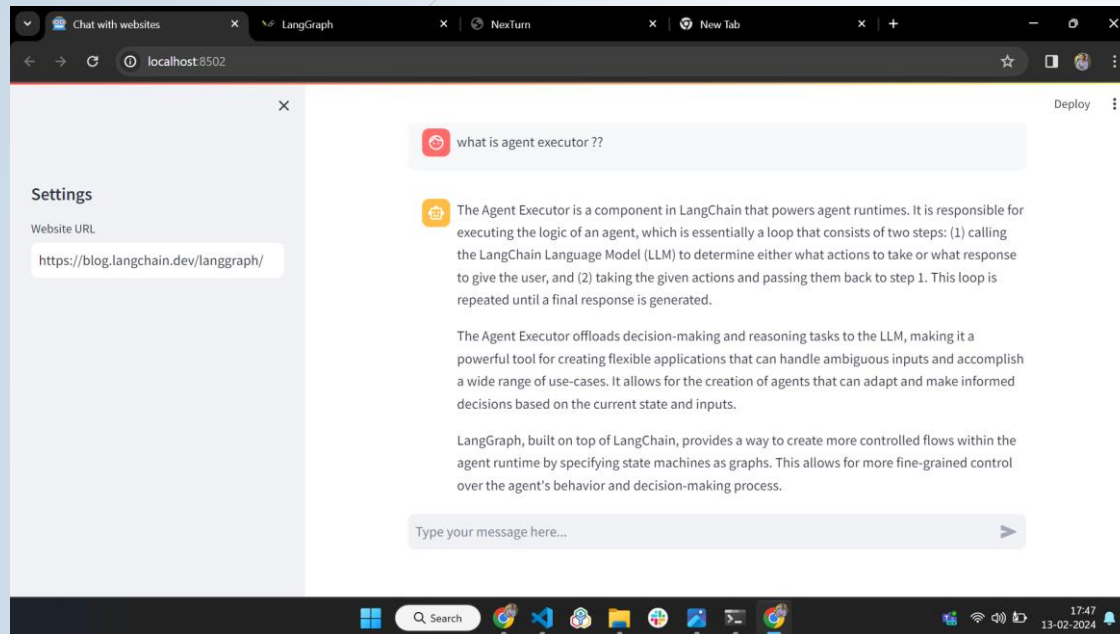
## Retrieval-Augmented Generation with a HTML page



# OUTPUT - using LLM (by training given Website URL)

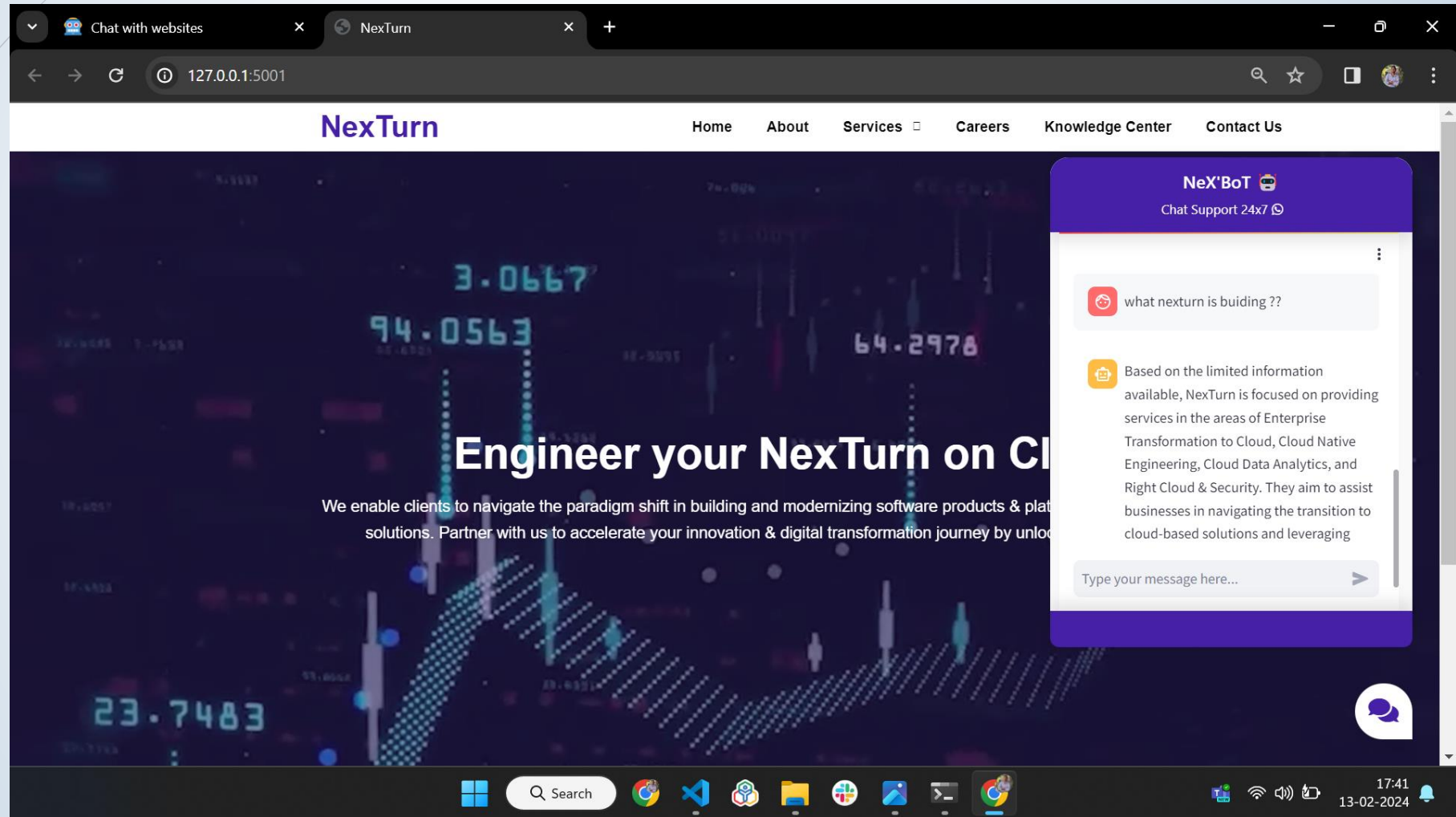


# OUTPUT - using LLM (by training given Website URL)





# OUTPUT - using LLM (for our NexTurn)



The screenshot shows a web browser window with two tabs: "Chat with websites" and "NexTurn". The address bar displays "127.0.0.1:5001". The NexTurn website has a dark theme with a background image of a city skyline at night. The main heading is "Engineer your NexTurn on Cloud". Below it, a subheading reads: "We enable clients to navigate the paradigm shift in building and modernizing software products & platforms. Partner with us to accelerate your innovation & digital transformation journey by unlocking the full potential of cloud-based solutions." A navigation menu at the top includes links for Home, About, Services, Careers, Knowledge Center, and Contact Us. On the right side, there is a purple chatbot overlay titled "NeX'BoT" with the text "Chat Support 24x7". The chatbot shows a user query: "what nextturn is buiding ??". The response from the chatbot is: "Based on the limited information available, NexTurn is focused on providing services in the areas of Enterprise Transformation to Cloud, Cloud Native Engineering, Cloud Data Analytics, and Right Cloud & Security. They aim to assist businesses in navigating the transition to cloud-based solutions and leveraging". At the bottom of the chatbot is a text input field with the placeholder "Type your message here...". The Windows taskbar is visible at the bottom of the screen, showing the Start button, a search bar, and several application icons. The system clock in the bottom right corner indicates the time is 17:41 on 13-02-2024.

NexTurn

Home About Services Careers Knowledge Center Contact Us

Engineer your NexTurn on Cloud

We enable clients to navigate the paradigm shift in building and modernizing software products & platforms. Partner with us to accelerate your innovation & digital transformation journey by unlocking the full potential of cloud-based solutions.

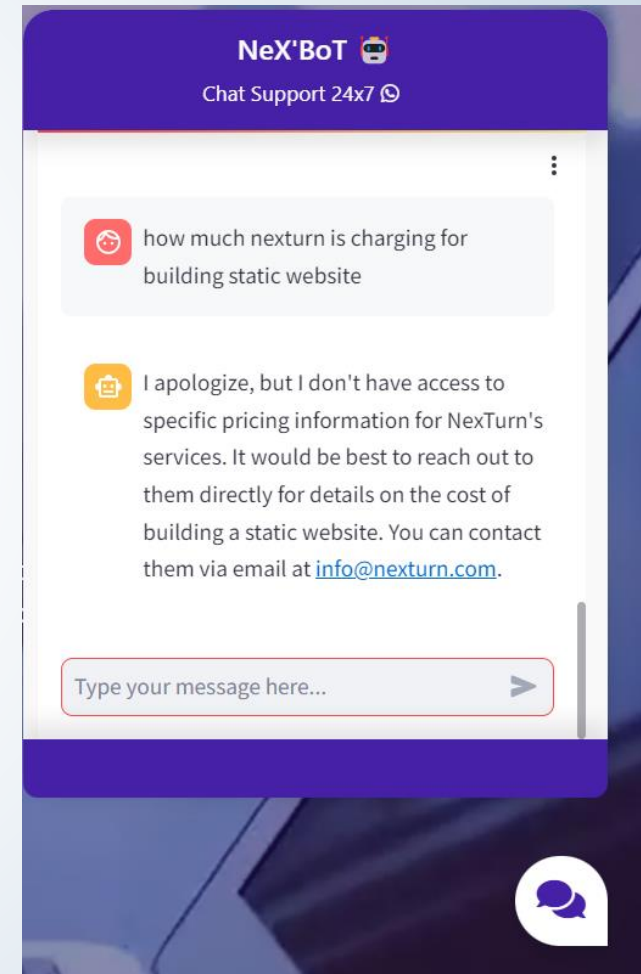
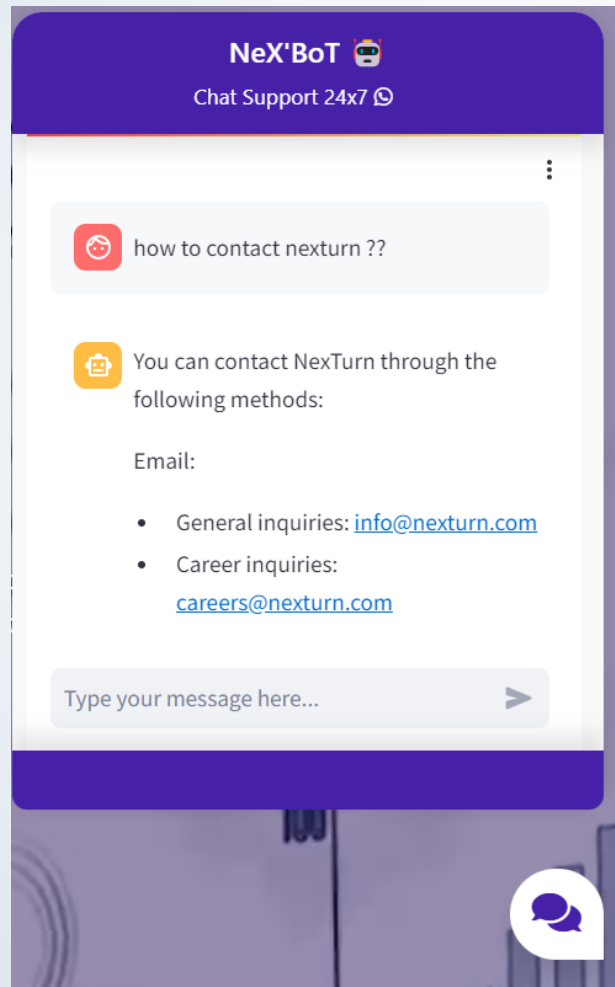
NeX'BoT  
Chat Support 24x7

what nextturn is buiding ??

Based on the limited information available, NexTurn is focused on providing services in the areas of Enterprise Transformation to Cloud, Cloud Native Engineering, Cloud Data Analytics, and Right Cloud & Security. They aim to assist businesses in navigating the transition to cloud-based solutions and leveraging

Type your message here...

# OUTPUT - using LLM



# TECHNOLOGY STACK



**HTML & CSS:** To defines the structure and to styles the appearance of webpages.

**JavaScript:** To Add interactivity and dynamic behavior to web pages.

**Streamlit:** This Simplifies building interactive web apps using Python scripts.

**Python:** Simple, readable programming language used for diverse tasks.

**OpenAI:** Leading AI research organization advancing AI safely.

**GPT-3.5 Turbo:** Cutting-edge AI model for advanced NLP and generation.



# CHALLENGES & NEXT STEPS

- The challenges we have faced mainly involve backend integration, where we have not obtained the desired output, and understanding Streamlit has also been a hurdle.
- As a future enhancement, we plan to incorporate multimedia and voice support in LLM as well. This would make it even more interactive for users.