



CHAT BOT USING AWS

Presented by Group 5

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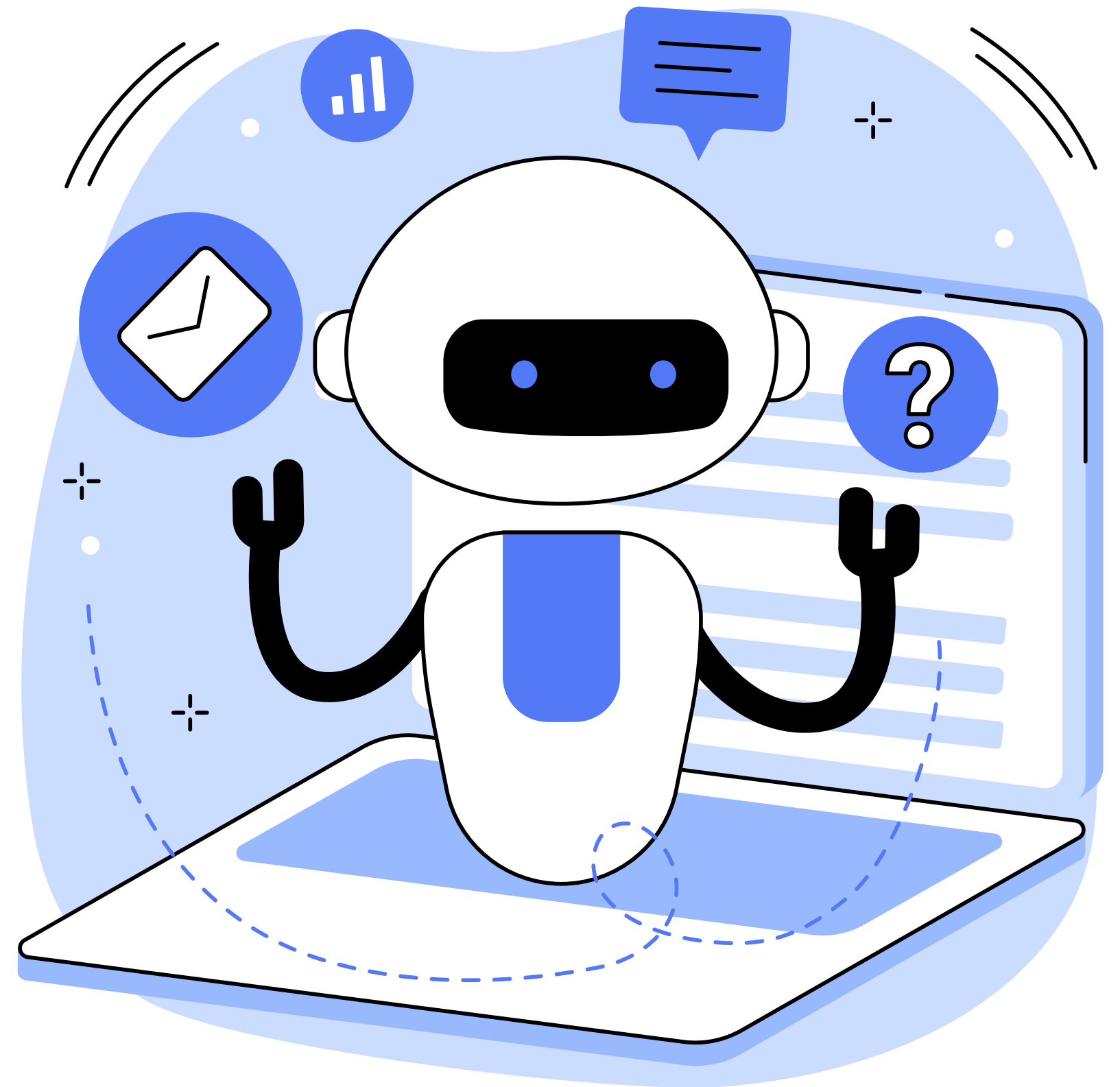
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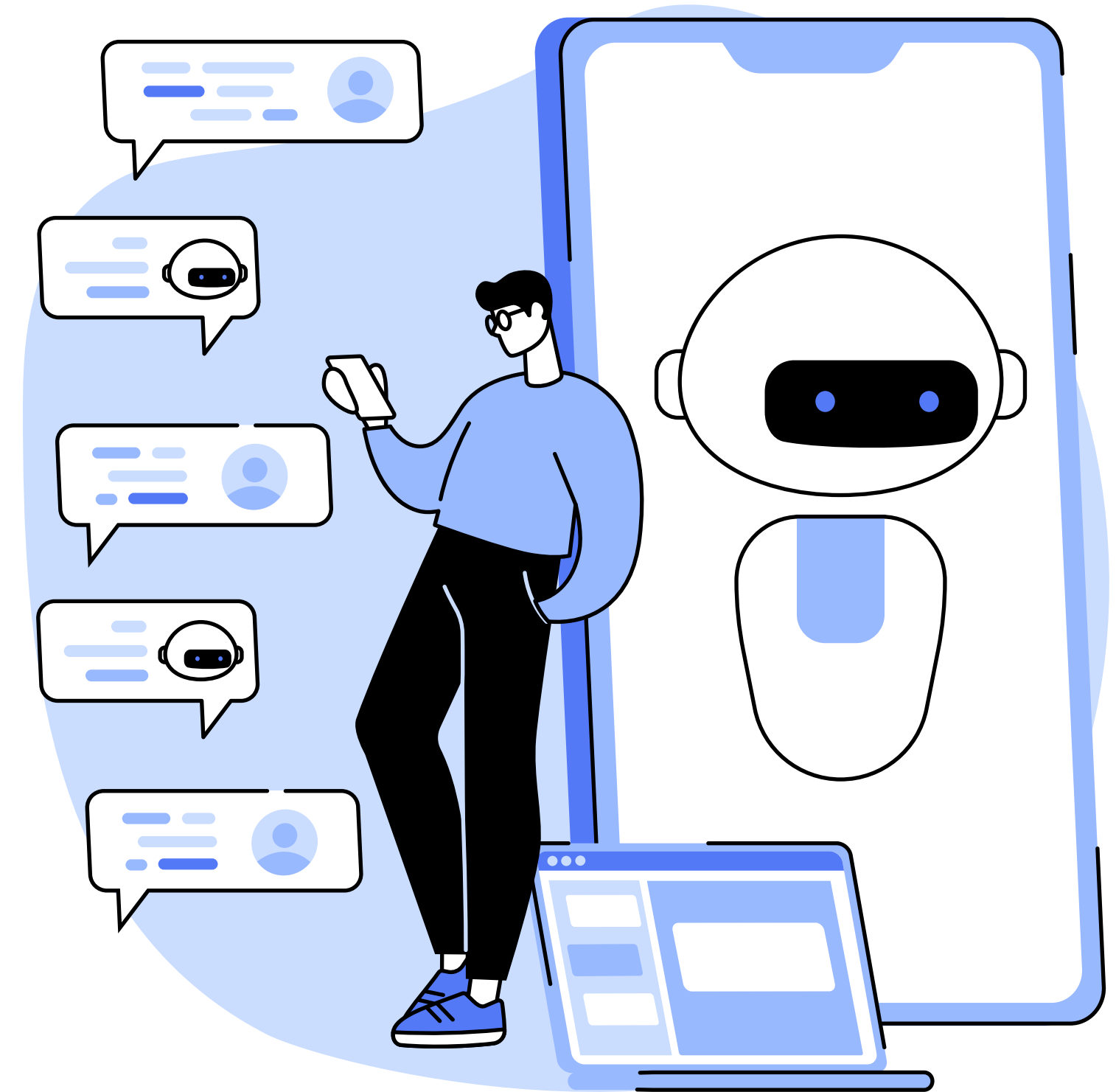
INTRODUCTION

- **Cloud-based reservation management with AWS Lambda, Lex, and SDK- AWS Lambda for serverless computing, rapid development, and automation**
- **AWS Lex enables conversational interfaces, natural language understanding, and automated responses**
- **AWS SDK streamlines development, integrates AWS services, and accelerates time-to-market- Transformational potential for businesses across industries, from hotels to transportation, enhancing efficiency and customer experiences**



ABSTRACT

This abstract introduces a cloud-powered reservation system leveraging AWS Lambda, Lex, and SDK. In today's dynamic business environment, efficient reservation management is crucial across various industries. Cloud computing technologies such as AWS Lambda, Lex, and SDK offer unparalleled flexibility and scalability, enabling businesses to streamline processes, automate tasks, and deliver seamless customer experiences. This abstract sets the stage for exploring how these cutting-edge tools revolutionize reservation management, driving operational excellence and customer satisfaction.



AWS LEX

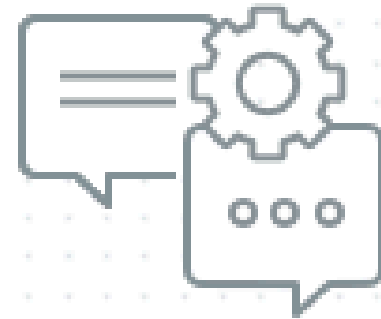
- Amazon Lex is a service for building conversational interfaces into any application using voice and text. It's a part of Amazon Web Services (AWS)
- Amazon Lex is a fully managed artificial intelligence (AI) service - Provides natural language understanding (NLU).- Supports automated responses, reducing the need for human intervention.
- Enhances customer support with round-the-clock availability.





Amazon Lex

Build conversational interfaces into any app using voice & text



Define your chat experience

What issue/problem are you solving for and what are the desired outcomes



Intent:
Desired action



Utterance:
User input



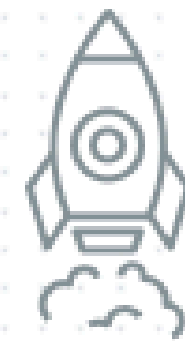
Prompt:
Request data



Slot:
Required data



Fulfillment:
Completed action



Build and deploy your chatbot

Test your chatbot before deploying into production

AWS LAMBDA

- AWS Lambda: Serverless computing service by Amazon Web Services
- Run code without managing servers: No provisioning or infrastructure management
- Enables rapid development and deployment of applications
- Scales automatically: Pay only for the compute time consumed- Ideal for event-driven and microservices architectures



AWS SDK

- AWS SDK: Comprehensive tools for developing applications on AWS
- Enables seamless integration of AWS services into applications
- Simplifies development processes and accelerates time-to-market
- Facilitates access to databases, management of storage, and workflow orchestration
- Empowers developers to harness the full potential of cloud computing with AWS services



WORKFLOW

Here is the sequence flow of the services we used to create the project

1

**Build a
chatbot
template in
Amazon Lex**

2

**Execute the
/backend
login in Aws
Lambda**

3

**Integrate your
Python
application,
library, or script
with AWS
services**

4

**Avail the Lex
V2 through
Kommunicate
(Used to
deploy the
aws lex
chatbot in real
time)**

5


**Integrate
Amazon Lex
chatbot into a
website.**





Demo Conversation


Send a message here in the chat widget to start a conversation and monitor your conversation from your Dashboard.

Do more than just live chat

 Customize your chat widget to match your use case and brand

 Use bots to answer to the routine and common customer queries

 Easy bot to human handoff for the best customer experience

 Leverage rich messaging to give superpowers to you bots



[Learn More](#) 

Copy this demo link and share with others

<https://www.kommunicate.io/livechat...>


Copy






HotelReserva...
Online

HotelReservationBot


Which dates would you prefer to check in?

10:05 PM

22-05-24


10:06 PM 

HotelReservationBot


How many nights do you want to stay?

10:06 PM

3


10:06 PM 

HotelReservationBot

Which room would you prefer like , Queen, king , or deluxe?


10:06 PM

Type your message...




Chatbot powered by [Kommunicate.io](#)

<

HotelReserva...
Online

⋮

✕




Which dates would you prefer to check in?

10:05 PM

22-05-24

10:06 PM ✓✓

HotelReservationBot




How many nights do you want to stay?

10:06 PM

3


10:06 PM ✓✓

<

HotelReserva...
Online

⋮

✕




stay?

10:06 PM

3

10:06 PM ✓✓

HotelReservationBot



Which room would you prefer like , Queen, king , or deluxe?

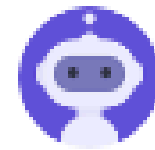
10:06 PM

king

10:06 PM ✓✓

10:06 PM ✓✓

HotelReservationBot



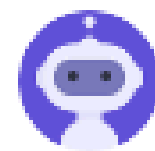
Okay,I have you down for a 3 night stay in mumbai starting on 2024-05-22.Shall I book the reservation?

10:06 PM



10:06 PM ✓✓

HotelReservationBot

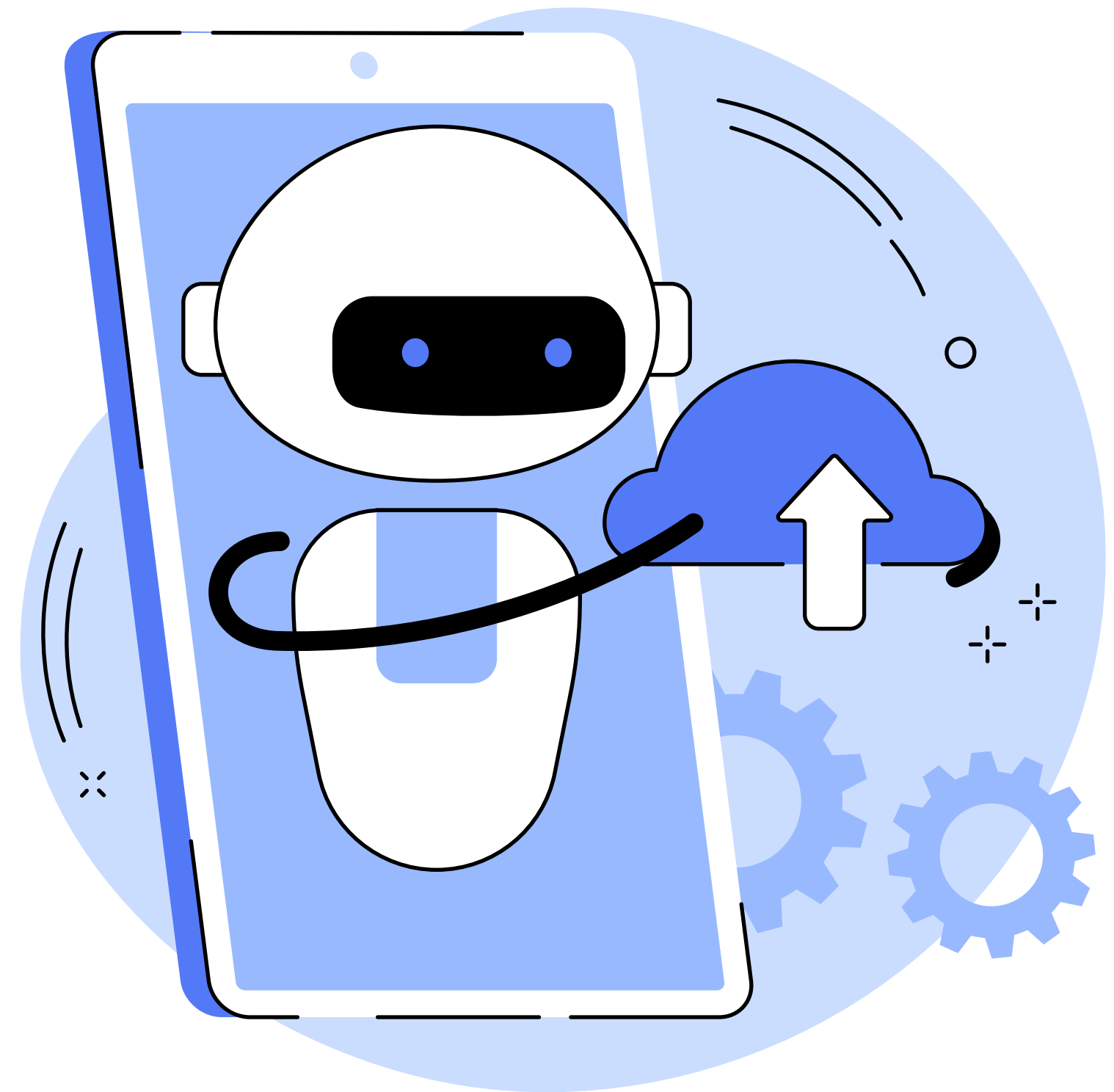


Thanks, I have placed your reservation

10:06 PM

CONCLUSION

AWS Lex, AWS Lambda, and the AWS SDK form a potent trio for building chatbots. Lex's NLU capabilities ensure accurate user understanding, while Lambda enables seamless execution of backend logic for quick responses. The SDK facilitates integration with diverse AWS services, expanding chatbots' functionalities. Together, they empower organizations to create personalized, efficient chatbots across various domains. Leveraging this trio, businesses can automate processes, enhance user experiences, and gain a competitive edge in today's digital landscape





**THANK YOU FOR
LISTENING!**