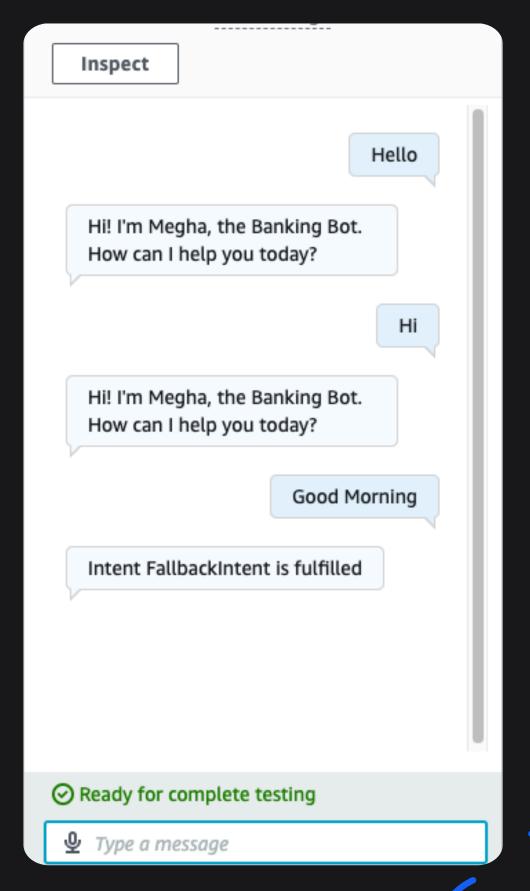
Howl built a chatbot with Amazon Lex s





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What is Amazon Lex?

What it does:

Helps you build Voice and Text Chatbots in minutes.

Why it's useful:

• It uses AI/ML capabilities to classify user intents and understand intents that are beyond what I've programmed.

How I'm using it in today's project:

• In this project, I'm using Amazon Lex to create

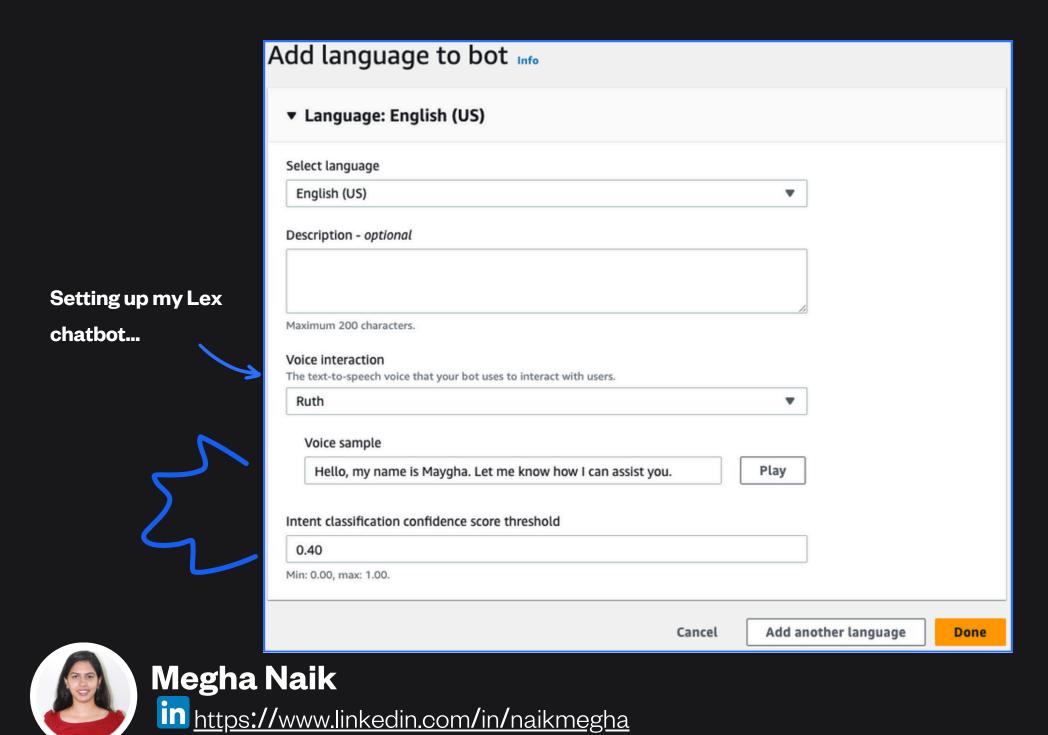
BankerBot, a chatbot that can greet the user and also
return error messages if it doesn't quite understand the
user's intent.





Set up a Lex chatbot

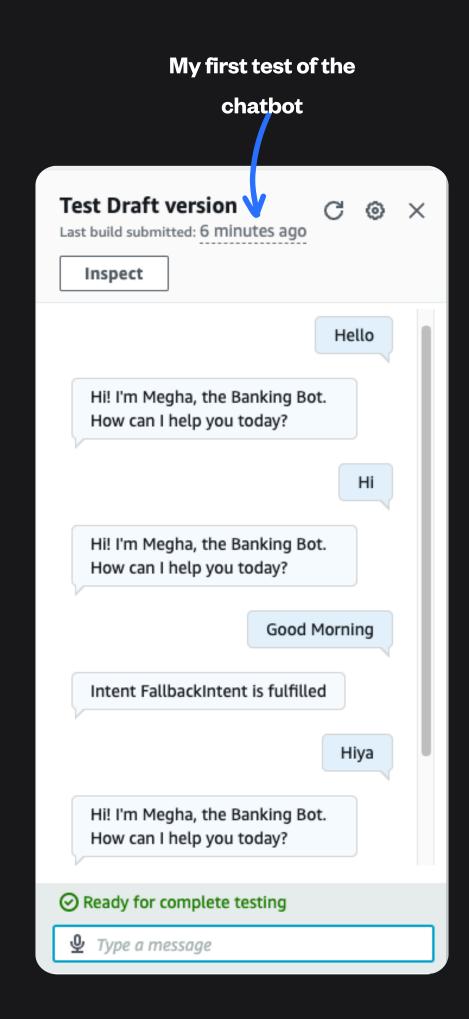
- I created BankerBot from scratch and used most default settings on Lex.
- In terms of the **intent classification confidence score**, I kept the default value of 0.40. What this means for my chatbot is it should be atleast 40% confident about the intent/goal of the chatbot user to respond. In more technical terms, there should be atleast a 40% match between the user's input and an intent I program for my Banker Bot to respond accordingly.





Create an intent in Lex

- Intents represent users' goals/purposes for using the chatbot. In Amazon Lex, a chatbot is defined by the intents that it supports.
- My first intent, WelcomeIntent, was created to greet the user when they say Hello.
- To set up this intent, I created sample utterances (eg. "Hi", "Hello", "I need help") and a closing response i.e. how the chatbot will respond.
- I launched and tested the chatbot, which could still respond if I entered similar utterances "Hiya"
- However, the chatbot returned the error message "Intent FallbackIntent is fulfilled" when I entered "Good Morning"
- This error message occurred because my chatbot could not understand the intent of the phrase "Good morning".





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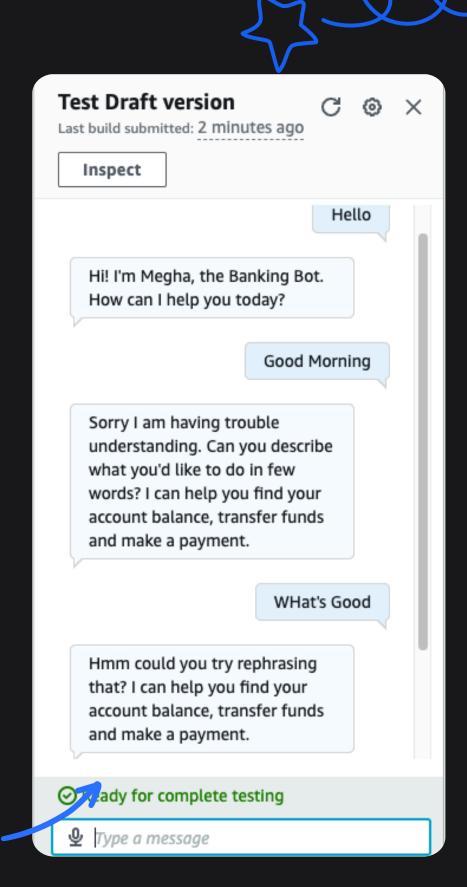
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Manage FallbackIntent

- FallbackIntent is a default intent in every chatbot that gets triggered when the chatbot does not recognize the user's goal/purpose.
- I wanted to configure FallbackIntent because the default closing response to the user is not easily understand
- To configure FallbackIntent, I had to create my own closing response on the intent's setup page. "Sorry, I am having trouble understanding. Can you describe what you'd like to do in a few words? I can help you find your account balance, transfer funds, and make a payment."
- I also added variations! What this means for an end user is they get to see different forms of the my chatbot's closing response.

 Perfect! The error

Perfect! The error
message is now much
clearer, and there are
variations too





My Key Learnings

- O1 Amazon Lex is a platform by Amazon for developing chatbots and voice-enabled applications.
- Intents represent the goals and intentions that users seek to achieve when interacting with Al.
- Al/ML is used in Amazon Lex to train artificial intelligence to engage in and sustain conversations with humans.
- FallbackIntent is used as to backup plan for handling user inputs that the chatbot cannot confidently classify into any specific intent.
- I have discovered that AWS offers various capabilities and serves as a robust tool for developing Al/ML models for everyday applications.



Final thoughts...

- This project took me about 50 minutes along with documentation.
- One thing I didn't expect was that e building a chatbot could be so easy and this straightforward.
- What's next? In the next phase of this project, I'll be adding a new flow that lets users check their account balances and verify their identity with their birthdays. I'll be creating a custom slot type to handle the different bank account types. Excited to bring this feature to life and make our BankerBot smarter and more interactive!



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Thanks NextWork for the free project guide!



ERROR! 00 OMG

An error I ran into was...

Kudos to me!There 's no error while doing this project.



