

**Document Generated: 04/04/2025**

**Learning Style: On Demand**

**Technology:**

**Difficulty: Intermediate**

**Course Duration: 5 Hours**

## Building ChatBots with Amazon Lex



### About this course:

Chatbots are a hot new technology - a great way to convey complex information to your customers in a free-flowing, conversational way. Amazon Lex is a great way to build them - an AWS service for building conversational interfaces for any applications using voice and text.

Amazon Lex is state-of-the-art, launched in April 2017. Powered by the same deep learning based engine as Amazon Alexa. No deep learning or natural language processing expertise is needed to build even complex bots. Provides an intuitive way of specifying the conversational interface. Automatically and dynamically adjusts conversational responses .Easy to build, test and publish app. Supports integration with other platforms such as Slack and Facebook.

The average salary of a *Applications Developer* is **\$75,323** per year.

### **Course Objectives:**

After completing this course, students will be able to:

- Build and deploy natural-sounding chatbots
- Design and build sound interaction models for your chatbots
- Implement robust fulfilment models using AWS Lambdas
- Develop third-party apps for Slack and Facebook

### **Audience:**

Website and mobile app developers looking to add chat functionality. Software developers looking to build sophisticated chatbots.

### **Prerequisites:**

Basic python programming. Basic understanding of HTTP and how REST APIs work.

### **Suggested prerequisites courses:**

- [Programming with Python for Data Science.](#)

### **Career path:**

[App Development...](#)

### **Course Outline:**

#### **You, This Course and Us**

You, This Course and Us  
Source Code and PDFs

#### **The Big Picture: Lex, Alexa and AWS**

Course Outline  
Lex and Alexa  
Evolution Of HCI And Voice Interfaces  
Alexa Echo And AWS  
Invocations Utterances Intent  
AWS Signin

- Sample Bots
- Custom Bots and IAM
- Finish Bot Creation

## **Interaction Models in Amazon Lex**

- Module Outline
- Creating Intents
- Slot Types
- Slots
- Slot Properties
- Sample Utterances
- Confirmations
- Configuring The Bot
- Test Order Coke
- Test Order Pizza Fail
- Test Order Pizza OK
- Cleaning Up Resources

## **Fulfilment Models in Amazon Lex**

- Module Outline
- Weather Bot
- Built In Slot Types
- Setting Up Weather Bot
- Lambda Intro
- Lambda Blueprint
- Code Big Picture
- Lambda Handler
- Constructing Response
- Lambda Configuration
- Lex Lambda Configuration
- Open Weather API
- Invoking Open Weather API
- Importing External Libraries To AWS Lambda
- Versions Aliases And Publishing

## **Third-party Apps: Chatbots in Slack**

- Module Outline
- Creating Slack Application
- Activating Lex Integration
- Configuring Stack App

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