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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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