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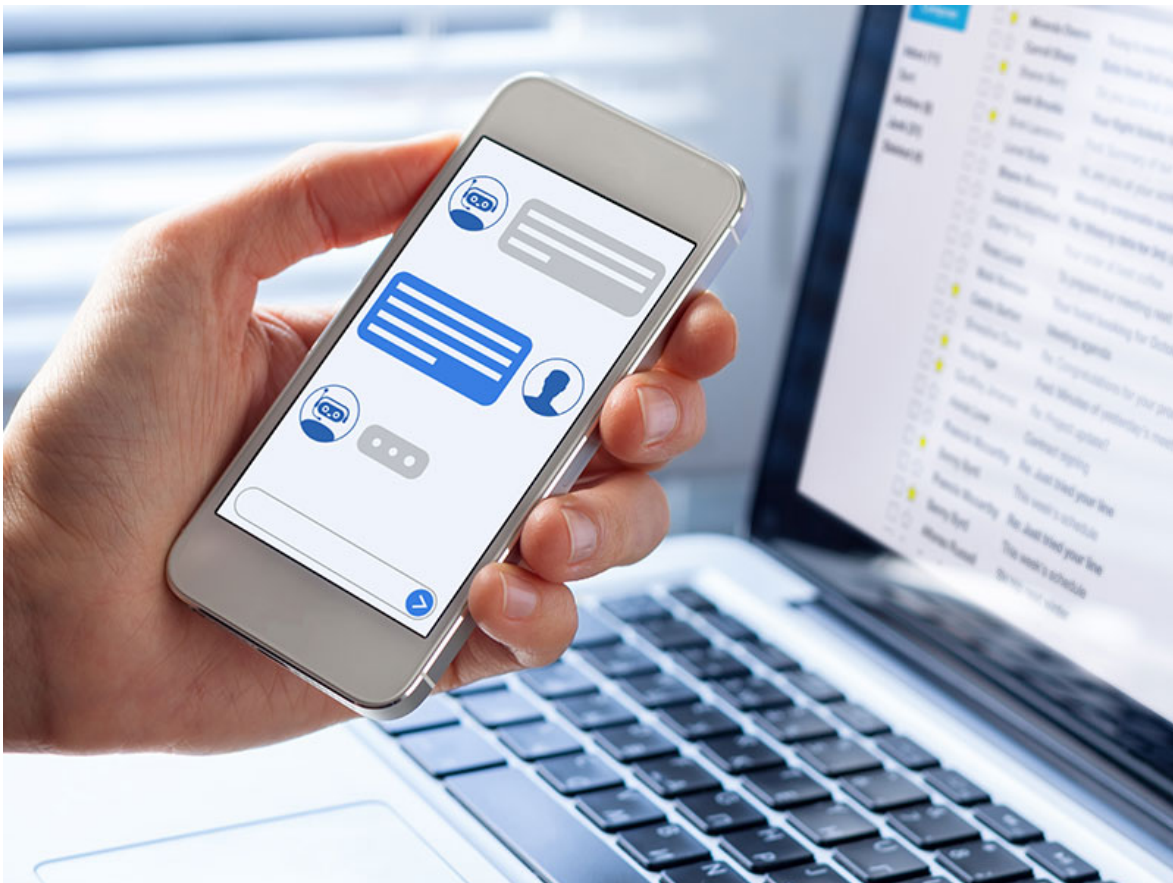
**Learning Style: On Demand**

**Technology:**

**Difficulty: Intermediate**

**Course Duration: 5 Hours**

## Building ChatBots with Amazon Lex



### About this Course:

The world of Information Technology is always in the phases of evolution and new and advanced technologies are being developed each passing day. Chatbots are the hottest new technology ruling the world of information technology and present developers an innovative means to convey complex information in a seamless and

simple conversational way. Amazon Lex is one of the most popular tools for building interactive and natural-sounding chatbots and this course provides an in-depth overview of this innovative AWS Service.

This intermediate-level 20 Hours Training Program helps professionals learn the core concepts and functionalities of developing & deploying chatbots. Professionals will learn how to capitalize on the Amazon Lex Core Functionalities to design Sound Interaction Models and Implement Robust Fulfilment Models using AWS Lambdas. Through this course, entry-level professionals with no major expertise in programming can even learn to design & develop complex chatbots. On average, a Professional Application Developer earns \$75,323 annually.

## **Course Objectives:**

The core objective of this course is to help professionals develop a better understanding and sound knowledge of the following key concepts:

- Development and Deployment of Natural-Sounding Chatbots
- Sound Interaction Models Designing and Development for Chatbots
- Robust Fulfilment Models Implementation using AWS Lambdas
- Third-Party App Development for Facebook & Slack
- Essentials and Fundamentals of Alexa
- Development of Apps using Amazon's Alexa and Lex
- Interaction Model Creation such as Intents, Utterances, Prompts, & Slots

## **Audience:**

This course is specifically tailored for the following group of professionals and interested candidates:

- Web Developers & Software Developers
- Mobile App Developers
- Professionals striving to learn Chatbots Development

## **Prerequisites:**

Professionals planning to enroll in the Building Chatbots with Amazon Lex course must comply with the following prerequisites:

Fundamental Knowledge of Python Programming Language  
Basic Understanding of Working with REST API  
Familiarity with the HTTP Essentials  
Certification in Programming with Python for Data Science is recommended

## **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 Slack App

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- Let anyone verify your completion and achievement by clicking on the badge
- Display your hard work and validate your expertise
- Display each badge's details about specific skills you developed.

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