Build a *Rad* Personal Assistant with Amazon Alexa Custom Skills

As you go through the course, you will learn both the core concepts, and activities that will give you a firm grasp on the practical implementation of Alexa Custom Skills.

You can use the following checklist to measure your progress. The checklist is also available as an interactive version at https://vivekk.com/teach-alexa-cs

Getting Started & Account Setup

- [ ] Echosim.io - Browser based Alexa Interaction
- [ ] Alexa App Installation
- [ ] Amazon Developer Portal Account Setup
- [ ] Amazon Web Services Account Setup

Creating your First Lambda Function `takeS3backup`

- [ ] Create Buckets and Upload Files in Amazon S3 (Simple Storage Service)
- [ ] Create Roles for Amazon Lambda & S3 with Amazon IAM (Identity & Access Management)
- [ ] Setup Lambda Trigger for S3 File Upload
- [ ] Write a Lambda Function `takeS3backup` to connect with S3
- [ ] Test `takeS3backup` function and check S3 connectivity
- [ ] Update `takeS3backup` function for automatic file copy from one S3 bucket to another
- [ ] Test the complete `takeS3backup` function to test automatic copying of files from one S3 bucket to another

Creating your First Alexa Skill `Eva` to Read Quotes

- [ ] Designing a Voice Interaction Model
- [ ] Preparing Intents, Slots, Utterances & Data
- [ ] Configuring Eva Custom Skill for reading quotes on Developer Portal
- [ ] A Working Alexa Skill - Eva Function on Lambda for Introduction
- [ ] Completing Alexa Skill - Extending Eva Function to read out quotes

Testing Eva Custom Skill for Reading Quotes

- [ ] Using Lambda Test Events
- [ ] Service Simulator on Developer Portal
- [ ] Web Simulator via echosim.io
- [ ] Testing on Amazon Echo device
- [ ] Reviewing Logs on Amazon Cloud Watch

Eva 2.0 - Making Eva Useful by connecting to APIs & getting real time route information

- [ ] Designing a Voice Interaction Model for Eva 2.0
- [ ] Connect to Google Developer Console and create Google Maps API Key
- [ ] Prepare Intents, Slots, Utterances and Data for Route & Traffic Information
- [ ] Configure Eva 2.0 Skill on Developer Portal with new Intents, Slots, & Utterances
- [ ] Develop EvaFunction 2.0 in Lambda with Google Maps API connectivity
- [ ] Test Eva 2.0 using Lambda Test Events
- [ ] Voice based testing of Eva 2.0 using Amazon Echo and Debugging using CloudWatch