



The background is a light blue sky with several falling leaves in shades of orange and yellow. On the left, there is a red brick barn with a yellow bell hanging from its roof. A yellow school bus is driving on a winding road that curves through a green field. In the foreground, there are several stylized trees with orange and yellow foliage. In the bottom right corner, there are several large, orange pumpkins with green stems.

# Build Alexa Skills with Python and Lambda









# What is it?



- Introduced in 2015, Amazon Echo is a wireless speaker and microphone device that allows users to interact with online services by voice
  - Alexa is the name of the speech service that powers Echo (and other devices), as well as a companion smartphone app for Android and iOS
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# What is it?

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- It has a wide range of capabilities out of the box, which developers can extend using the “Alexa Skills Kit” (ASK)
  - The Skills Kit runs in the cloud, handling a lot of the heavy lifting traditionally associated with voice interfaces such as speech recognition and text-to-speech encoding
  - ASK is free to use and AWS Lambda is free for the first one million calls per month.

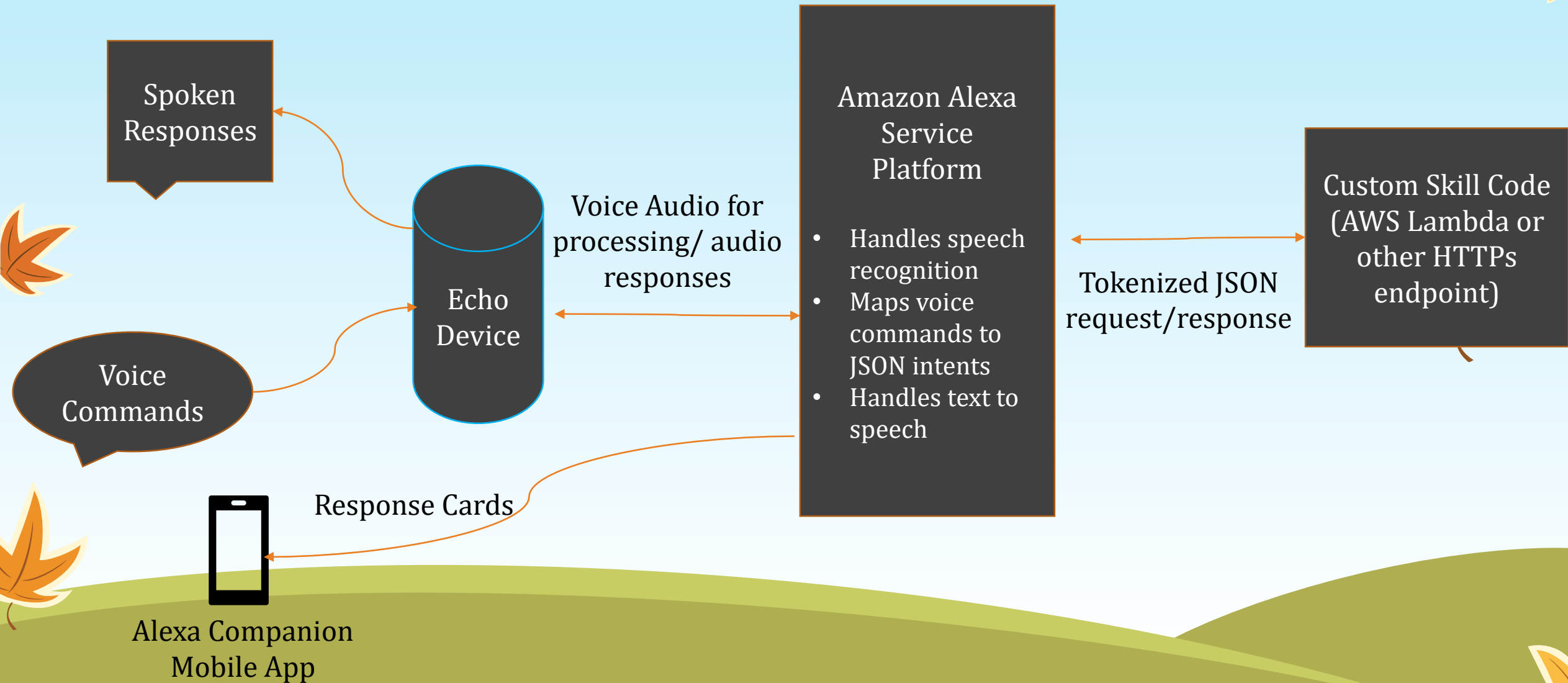


# Alexa Skill in India

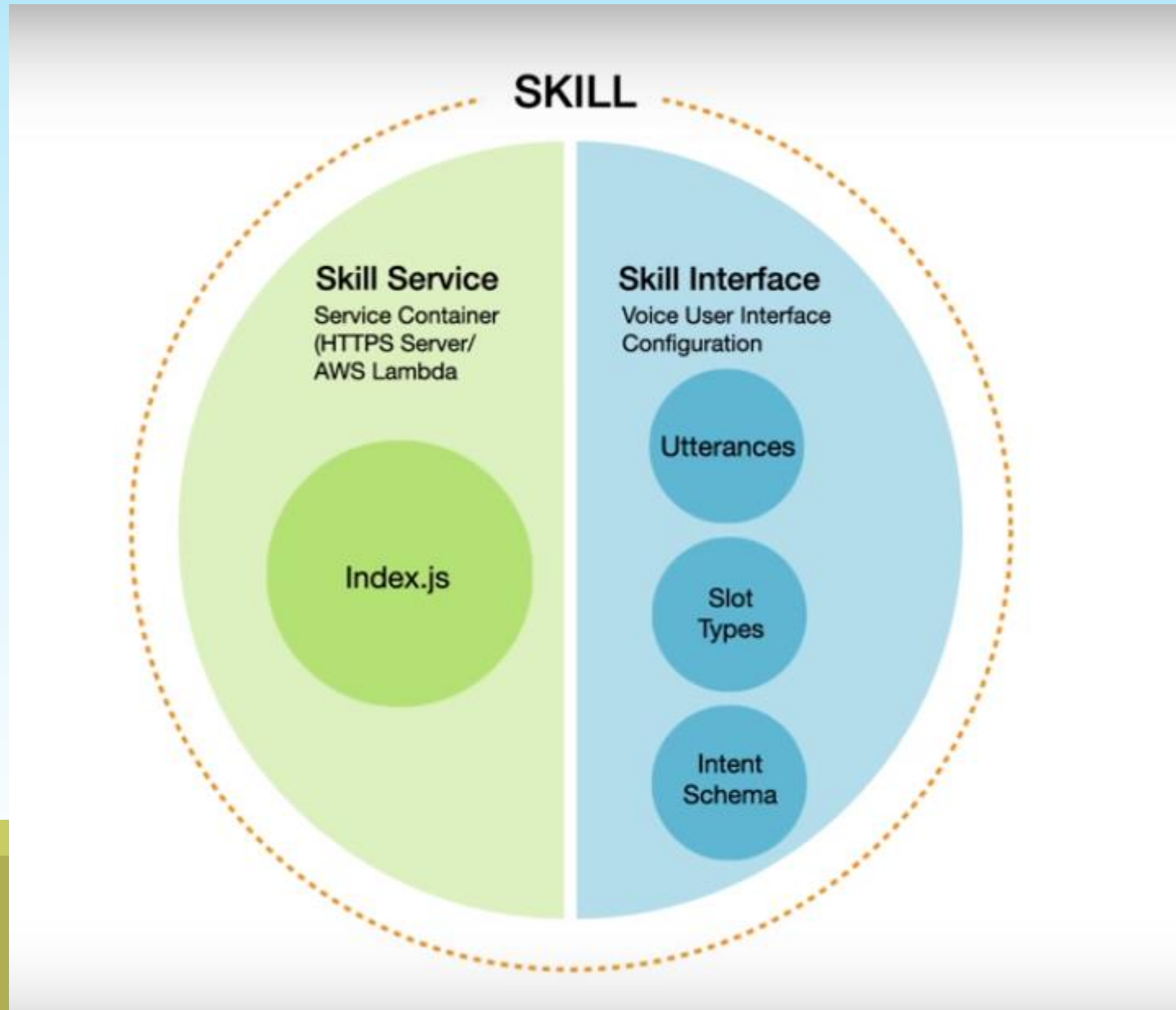


- There are now thousands of skills available in India from brands like Saavn, Zomato, Times of India, and Goibibo as well as many other innovative designers and developers
  - Dedicated resources for India
    - <https://developer.amazon.com/en-in/alexa-skills-kit>
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# Anatomy of Alexa Custom Skill



# Steps to Build the Alexa Skills





# Steps to Build the Alexa Skills



## 1. Skill Interface / Voice User Interface Configuration

- [developer.amazon.com](https://developer.amazon.com)
- Initial Setup
- Configure the Intent Schema
- Configure Custom Slot Types
- Configure Sample Utterances
- Custom Skill Endpoint Configuration

## 2. Skill Service

- [aws.amazon.com](https://aws.amazon.com)
  - Select US East (N. Virginia) AWS region
  - Set function trigger to “Alexa Skills Kit”
  - Implement the function “lambda\_handler”
  - Test your custom skill
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