

DialogFlow Training with NLP for chatbots

The course below is outlined for 2 days where on day 1 all building blocks of dialogflow is covered and students will be building the chatbots. On day 2, students will be learning the concepts by doing to deploy their chatbots on web, slack, facebook messenger.

At the end of the workshop, students will also be learning pure NLP concepts to further enhance their skill sets.

Day 1:

Introducing Chatbots in Dialogflow

- Why we need Chatbots?
- Prerequisites and Software
- Introducing Dialogflow
- Conversation Flow
- Setting up Dialogflow

Building Blocks of Chatbots

Agents

- Create and manage intents
- Agent Settings
- Versions and environment
- Prebuilt agents
- Small Talk
- Multilingual Agents

Introduction to Intents

- Intents
- Create and manage intents
- Training phrases
- Actions and parameters
- Responses
- Default intents
- Rich messages

Introduction to Entities

- Entities
- Create and manage entities
- System entities
- Developer entities
- Session entities
- Regex entities

Fuzzy matching

Contexts

What is Contexts?

Input and output contexts

Lifespan

Follow-up intents

Contexts and fulfillment

Fulfillment

Fulfillment

How fulfillment works?

Configure fulfillment

Webhook for slot filling

Using external API for fulfillment

Day 2:

Deploying your chatbot on web

Building a webhook endpoint

Setting up the webhook endpoint for dynamic data retrieval

Configuring Intents with Fulfillment

Fulfillment Using Cloud Functions for Firebase

Fulfillment Using AWS Lambdas

Integrating with Third-party Applications

Setting up Facebook App

Integration with Facebook messenger

Setting up a Slack Workspace

Integrating Dialogflow with Slack

Quick Introduction to NLP for chatbots

Introduction to NLP

What is spaCy?

POS Tagging

Stemming and Lemmatization

Named-Entity Recognition

Stop-words

Dependency Parsing

Noun Chunks

Finding Similarity