

CREATE A CHATBOT IN PYTHON

Introduction

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Creating an Input Function

- In order to use Tensorflow's built-in support for training and evaluation we need to create an input function — a function that returns batches of our input data.
- In fact, because our training and test data have different formats, we need different input functions for them. The input function should return a batch of features and labels.

Steps:

- On a high level, the function does the following:
 - Create a feature definition that describes the fields in our Example file
 - Read records from the input_files with `tf.TFRecordReader`
 - Parse the records according to the feature definition
 - Extract the training labels
 - Batch multiple examples and training labels
 - Return the batched examples and training labels

Creating the Model

- As we have different formats of training and evaluation data we have to create a function wrapper that take care of bringing the data into the right format.
- It takes a model argument, which is a function that actually makes predictions.
- In our case it's the Dual Encoder LSTM, but we could easily swap it out for some other neural network

Evaluating the model & making Predictions

- After training the model we can evaluate it on the test set.
- This will run the evaluation metrics on the test set instead of the validation set.
- We will get probability scores for unseen data.
- We could imagine feeding in 100 potential responses to a context and then picking the one with the highest score.

Thank You

