Flight Booking Chatbot:
The Traveler on Discord

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Outline

- Background review
- Process/Steps
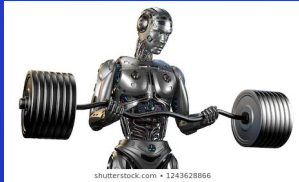- Updates to bot
- Demo (in Discord!)
- Next steps

Background Review

- Create a chatbot designed to book flights (2 way only) for single individuals.

- The bot should hold a conversation with the user, and upon being given flight information, gather it and export possible options.
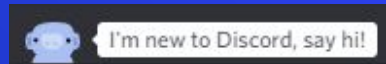
- This should be deployed using an IM interface.

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Steps/Process

Train the bot

Let user initiate conversation

Look for flight information

Display Options and end booking

Activate helper functions

DM new users

Confirm flight information

Query Amadeus Flight API

Connect to Discord

I'm new to Discord, say hi!

Application Programming Interface

Updates to Bot

- Functions were refined and broken into smaller pieces.

- Added more QA to functions.

- Added more airports.

- Better formatted code.

- Allowed for corrections to booking info.

- Allowed for multiple bookings.

- Updated pattern matching (with contexts and more).

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A Discord Demo

Log into Discord (or make an account) to try it yourself!

Next Steps

- Expand conversational database.
  - Better preprocess data

- Work towards NLU over NLP - will require new library.
  - i.e. Rasa, Dialogflow

- Include more options for flights.
  - One way trips, more people

- Consider options for multiple users of Chatbot (eg. Docker).

- Work out smaller issues
  - Booking for next year, specific formatting for input

- Consider connecting to an email API to actually send the flight info to user.

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Thank you

Questions? Comments? Concerns?... Insults?
Email me: karldsdavidson@gmail.com

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