Sports chatbot

June 22, 2018

# Overview

## Project Background and Description

The project idea came about when I became interested in cataloging arguments for news media outlets. Upon reflection, I came to realize that news is dominated by politics and political arguments concern sensitive matters that may not have wide appeal especially to prospective employers.

## Project Scope

## Deliverables

* Sports-Chatbot- an interactive computer program that can discuss sports related topics including Baseball, Football, Basketball and Hockey. The Sports-Chatbot will have some knowledge of lesser known sports.
* Program would accept input from a keyboard and return output to a screen.

## Data Source

* Two months of Reddit discussions for the following topics
  + Baseball, Football, Basketball, Hockey
* Reddit data source found on internet
* Google BigQuery

## Steps

1. Gather Data
2. Write data to a relational database in question-response pairs
3. Vectorize data using SpaCy
4. Use Tensorflow or Pytorch to generate sequence-to-sequence model
5. Create user front-end

## Phase 2

1. Voice to Text
2. Rule sets

## Implementation Plan

1. Store data in database (Completed this weekend)
2. Word Vectorization (Next Week)
3. Neural Network Model Training
4. Neo4J Graph Database

## High-Level Timeline/Schedule

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| --- | --- |
|  | [Describe what the high level timeline/schedule will be to plan, design, develop and deploy the project. Generally, by when do you expect this project to be finished?] |

# Approval and Authority to Proceed

We approve the project as described above, and authorize the team to proceed.

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| Name | Title | Date |
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