CS5560 Knowledge Discovery and Management

Project Team: 8

Increment-1 Report

Team Members:

Megha Nagabhushan

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Motivation

Geospatial data is all around us. geospatial data is any data with a spatial identifier referring to a position on the earth: a house, building, road, lake, mountain, or countless others. Geospatial data is also highly influential in today's business market, and businesses that incorporate geospatial data into their analysis, reporting, and forecasting have the potential to outpace competitors through smarter use of their data.

We can use this geospatial data to train our model and develop a question answering system.

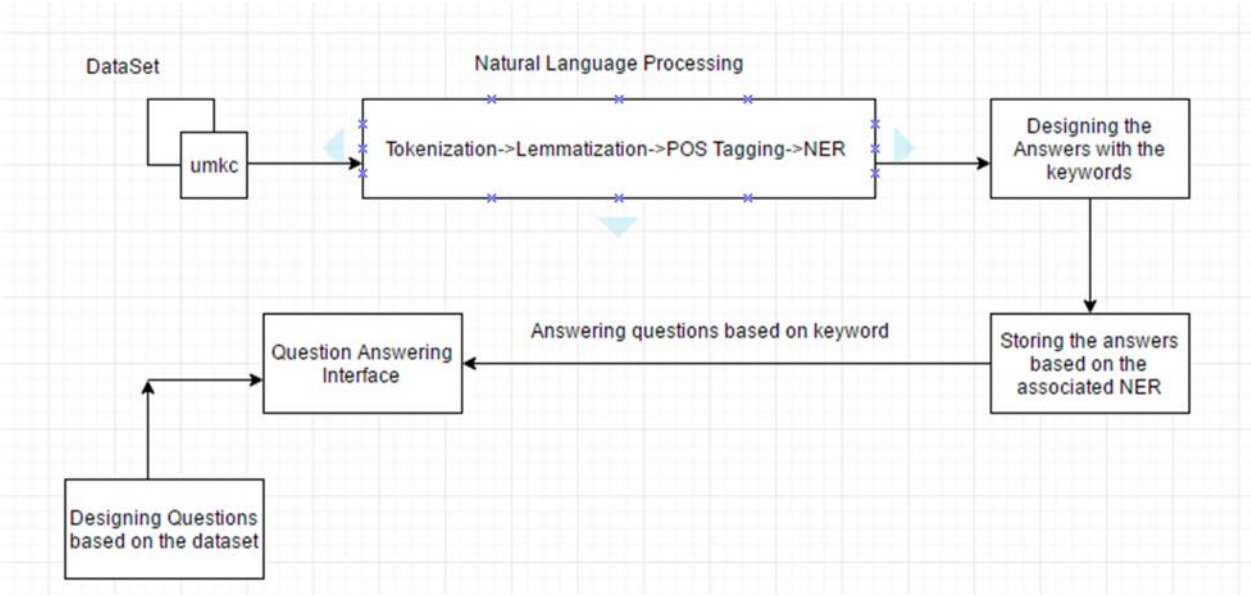
Objectives

The objective of this project is to develop an intelligent question answering system for the geospatial data collected in the UMKC campus.

Datasets

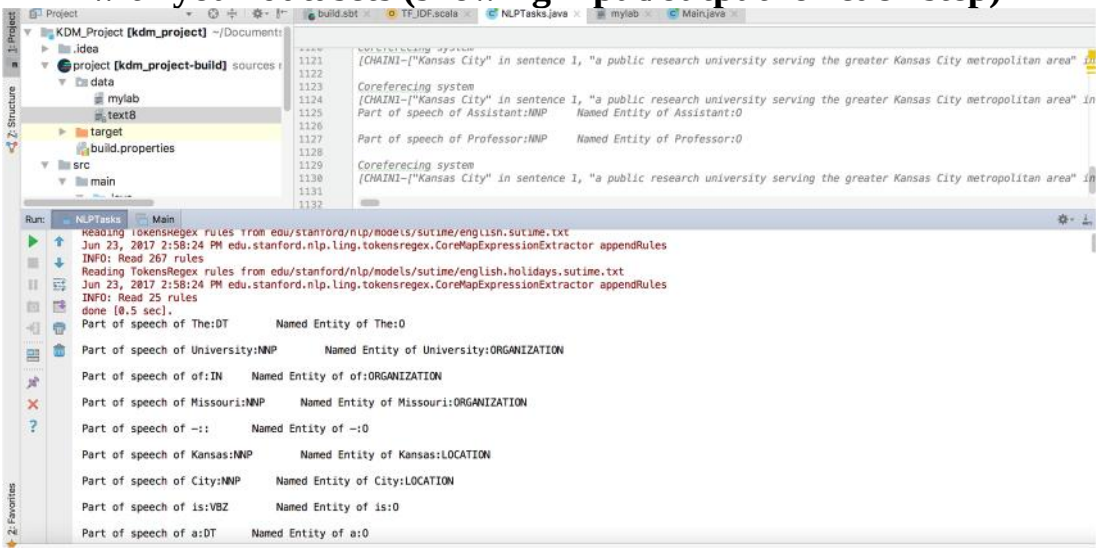
The dataset we will be using for the future increments will have 3D images taken inside UMKC campus. For this increment, we are using our own text dataset which contains information about UMKC faculty.

Workflow

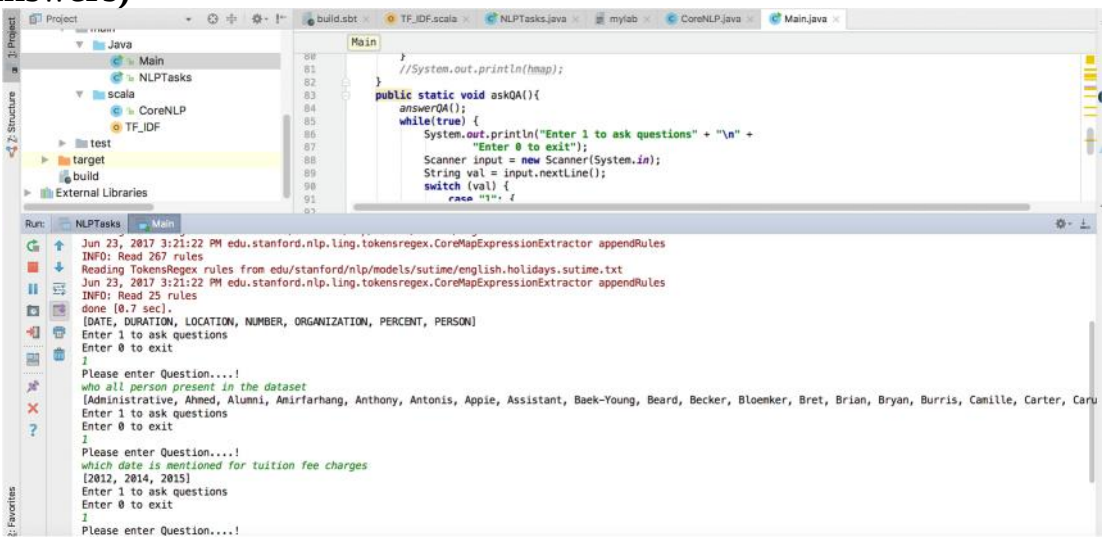


Implementation

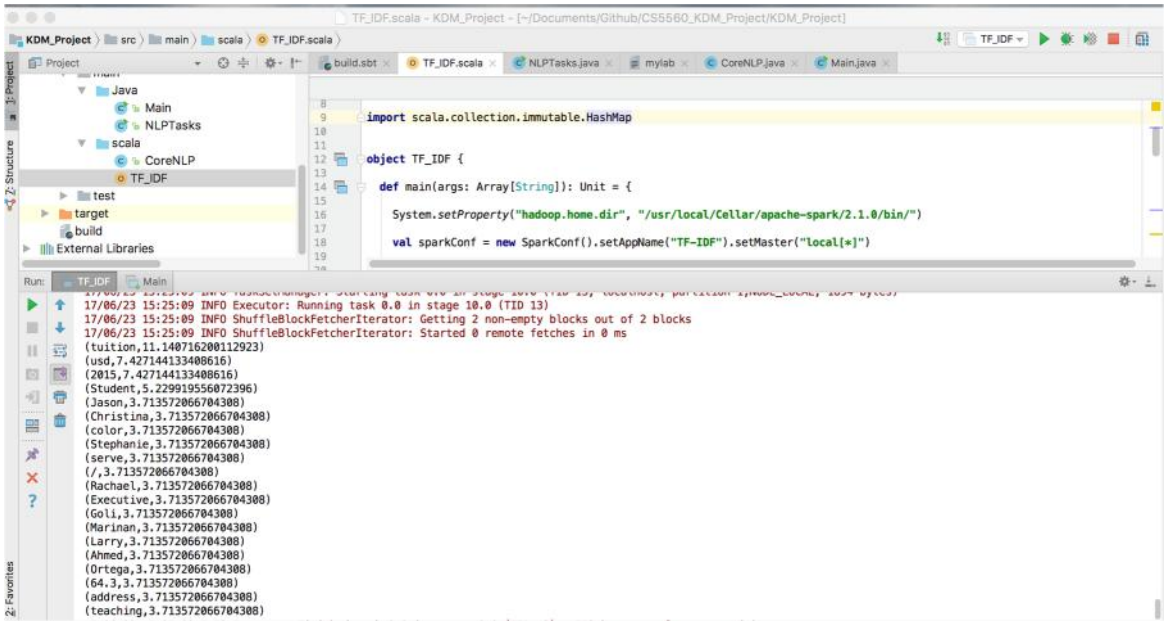
a. NLP with your datasets (showing input/output for each step)



b. Question Answering with your datasets (showing the list of quest ions/answers)



b. TFIDF with your datasets (showing input/output)



Project Management

a. **Contribution of each member**
   Megha Nagabhushan – 50%
   RohitKumar Nagulapati – 50%
b. **Include ZenHub and GitHub URL/statistics/screens**
   https://github.com/ROHITHKUMARN/CS5560_KDM_Project
c. **Future Work**
   For the future work, we will be using rest services to predict the image data and then use the predictions to develop knowledge graph. We will use Google's knowledge graph API for generating the knowledge graph.