NLP PROJECT FINAL REPORT

TEAM IRUN

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PROJECT OUTLINE

What is Irun?

Irun is a model that predicts the player’s score based on the tweets mentioned by a particular soccer player. While the existing scoring system was calculated through objective indicators such as attack points and defense in the on-the-ball situation, the Iron Model calculates scores of collective intelligence that reflect the thoughts of the anonymous group. In this respect, we will be able to present a new rating standard and show a rating on the overall game as well as the on-the-ball situation.

LOGIC

DATASET

Tweets

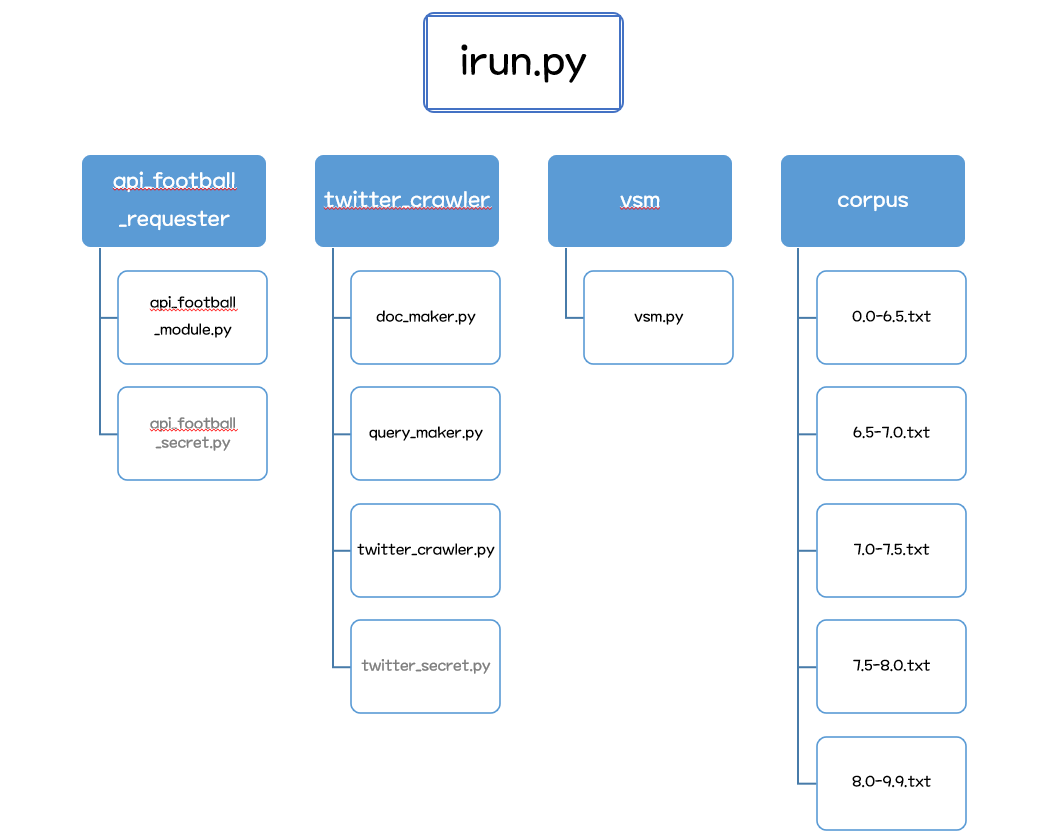
테이블이(가) 표시된 사진

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Match

1. England Premier league
2. Germany Bundesliga
3. Spain La Liga
4. Italy SERIE A
5. USA MLS

SOURSE CODE & MODULES



Api\_football\_request module

Api\_football\_request module collects fixture data by using Football-API at RAPIDAPI. Because twitter api supports only collecting tweets within recent 7 days, we have decided to collect each 7 days’ fixture data, which includes players’ rating and full name. These information is used to sort tweets by players’ rating.

Twitter crawler module

twitter\_cralwer.py implements a get\_replies function that returns all replies related to player name and match date input through the tweepy api. doc\_maker.py and query\_maker.py can compose a corpus or query using this function.

VSM module

It is a module that reads corpus documents and stopwords to create a tf-idf dictionary. The lnc model is applied and dictionaries are generated in advance when imported from the irun module. When an input query comes in, a query vector is generated, and a cosine similarity is obtained by integrating the document vector with l2-norm. Returns the cosine similarity.

IRun module

As the top-level module, the Irun Module parses the query file, sends it to the vsm module, and obtains cosine similarity. The result is calculated with a specific score that is the last result through the result converter module.

Server\_main module

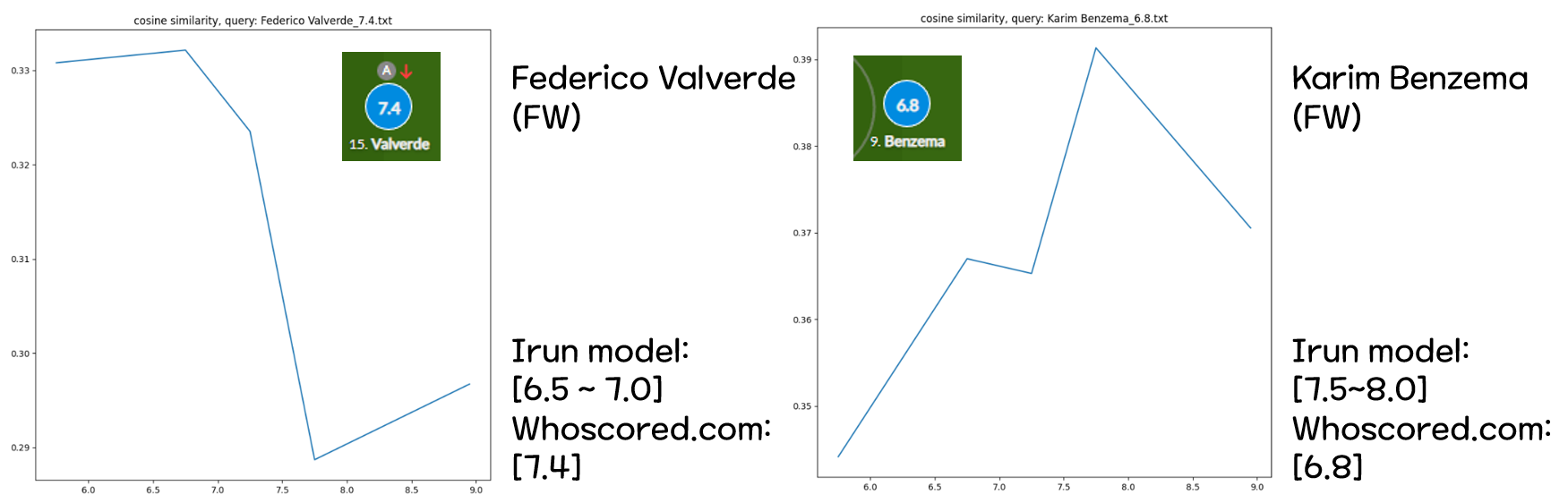
텍스트이(가) 표시된 사진

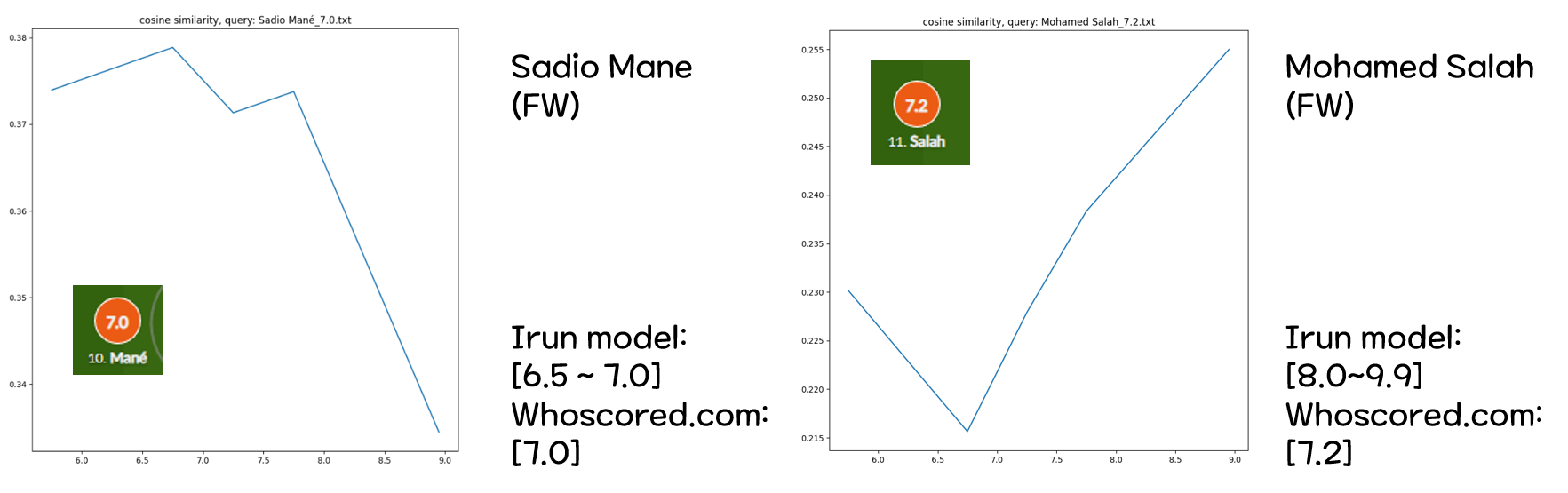
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Irun project aims to serve irun rating to users, which represents tweeter’s reaction to the players’ play and recent trends. To serve rating easily and comfortably to users, we made a simple web api to serve IRun rating. We have used python’s Flask framework to develop api. Irun rating can be made with HTTP Post request to /api/rating with body data that includes query and player’s name. Example query input could be like this one: “His pass is the worst. Even my 5-year-old child can pass well than him”. Then Irun server module returns with expected player’s rating range and specific rating.

Result & EVALUATION

Interval Version.





Specific Value Version.

