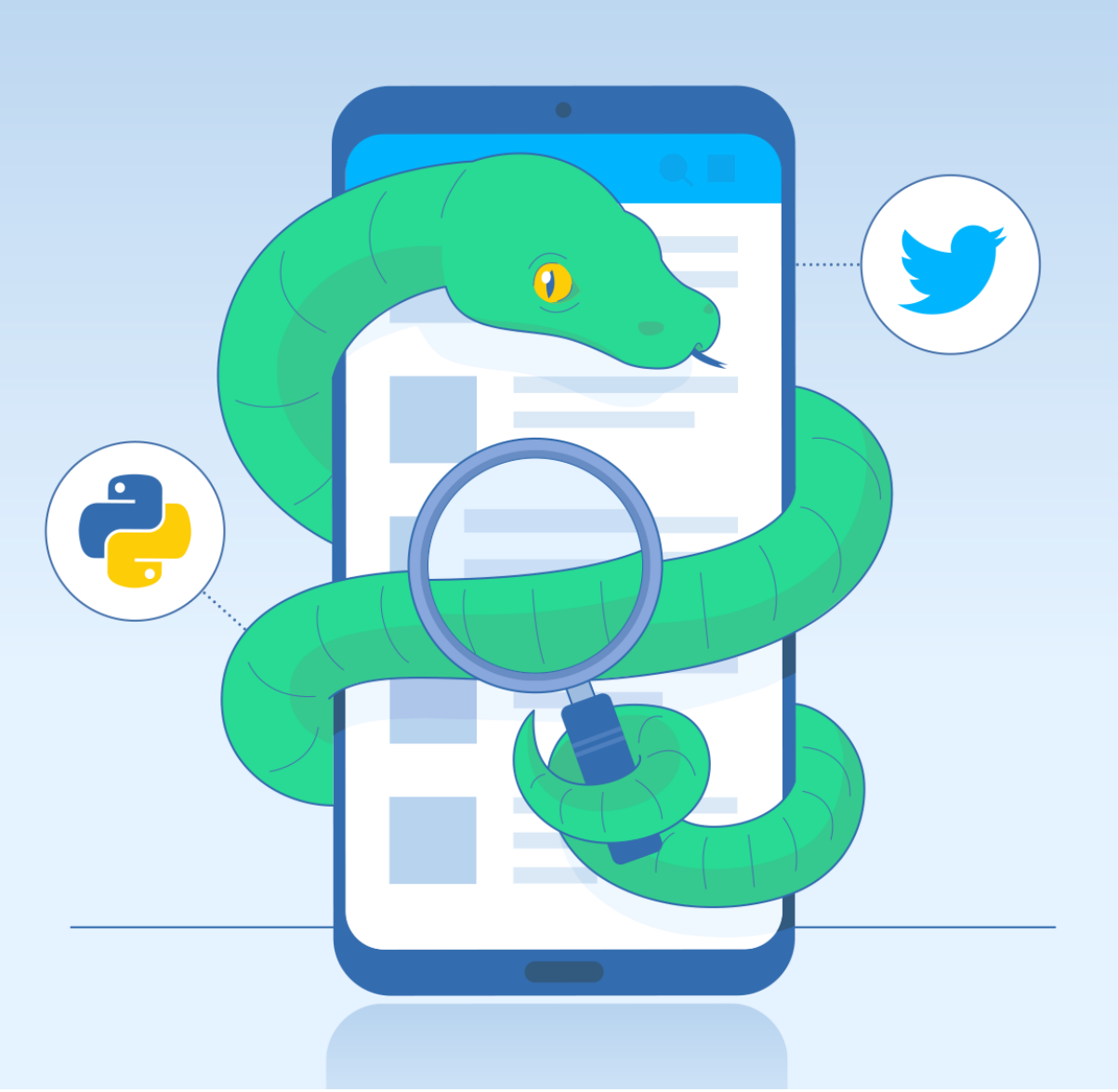
Information Retrieval

# Real Time Tweet Lookup



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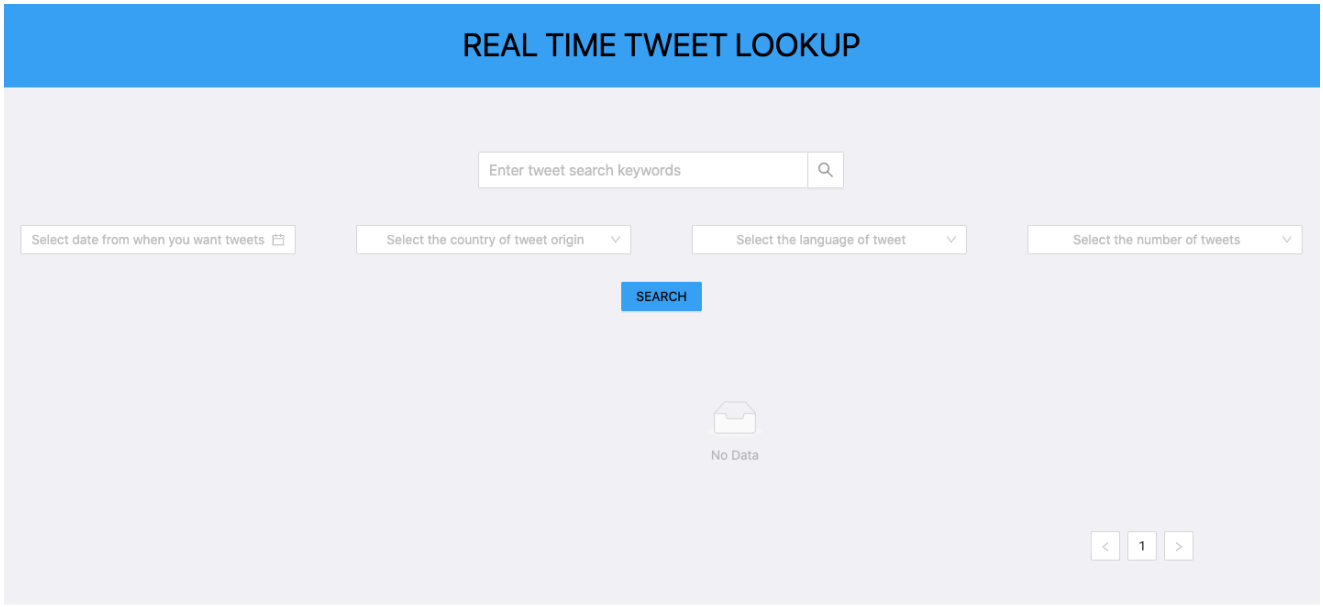
Real time tweet lookup is a search engine loosely based on the search engine found in twitter with additional filters such as language, the geographical location and the date of tweet origin. It takes keywords and the above said parameters and input and produces the tweets as output.

## Frontend UI




The UI is very simple with five input tabs for keywords, date, country, language and number of tweets respectively. The processing system will take around ~35 seconds (depending upon the number of tweets) to produce the output to the frontend. Some of the results screenshot are shown below. The Figure 1 shows the tweets when searched for tweets related to T20 World Cup in India.

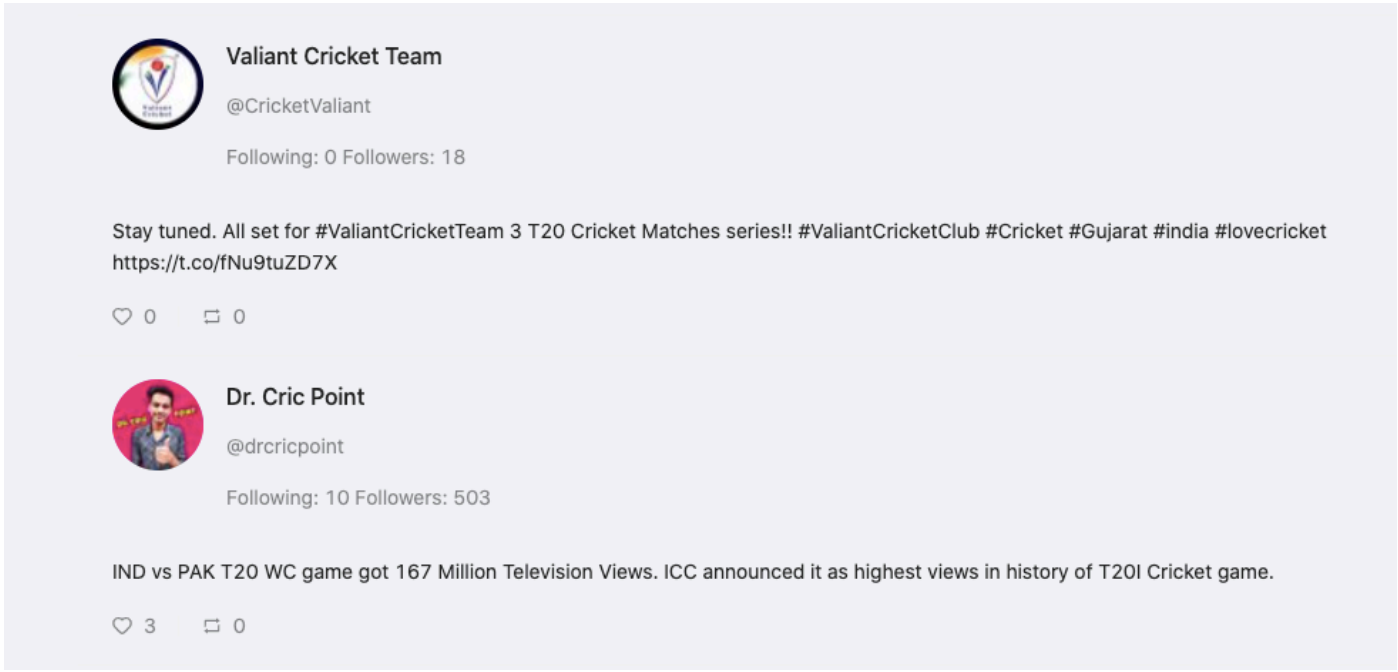



Figure-1

The figure 2 shows the ‘Tamil’ language tweets related to Diwali in India.

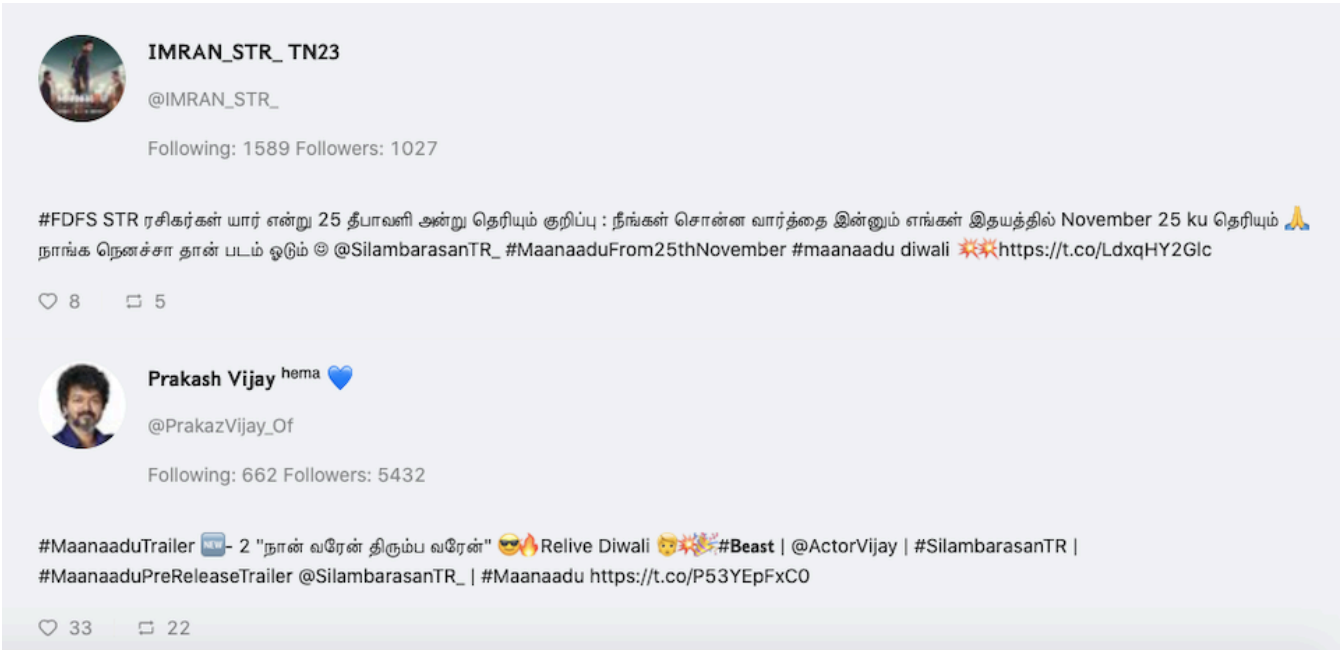



Figure-2

# Backend (Flask)

The backend Flask application consists of only one API which is used to connect and transfer data to the frontend. The respective code is shown in figure 3.

```
app = Flask(__name__)
CORS(app,resources={r"/*": {"origins": "*"}})

@app.route("/tweets", methods=["POST"], strict_slashes=False)
@cross_origin(supports_credentials=True)
def getTweets():
    data = request.data
    dict_str = data.decode("UTF-8")
    data = ast.literal_eval(dict_str)
    texts = initialiser(data)
    answer = semantic_similarity(data,texts)
    result = final_computation(answer)
    return result

if __name__ == "__main__":
    app.run(debug=True)
```

Figure-3

Apart from this, partial implementation of the research paper (What makes a tweet relevant for a topic?) is also done to classify the authenticity of the tweets obtained via the tweepy API.

# Github Link:

The full implementation of the code and the reports are available in https://github.com/KaranrajMokan/Real-Time-Tweet-Lookup