



2022 Campus Challenge

Extract Trends from social media data

Team Name: High Definition

Institute Name: Indian Institute of Engineering Science and Technology, Shibpur

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1 (Team Leader)

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2024

2

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2024

3

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2024

USE-CASES

P0: The web app extracts data in real time from different social media platforms and calculates the trending score

P1: The web app provides the feature to the users to search for their own fashion products and see if the product is trending or not

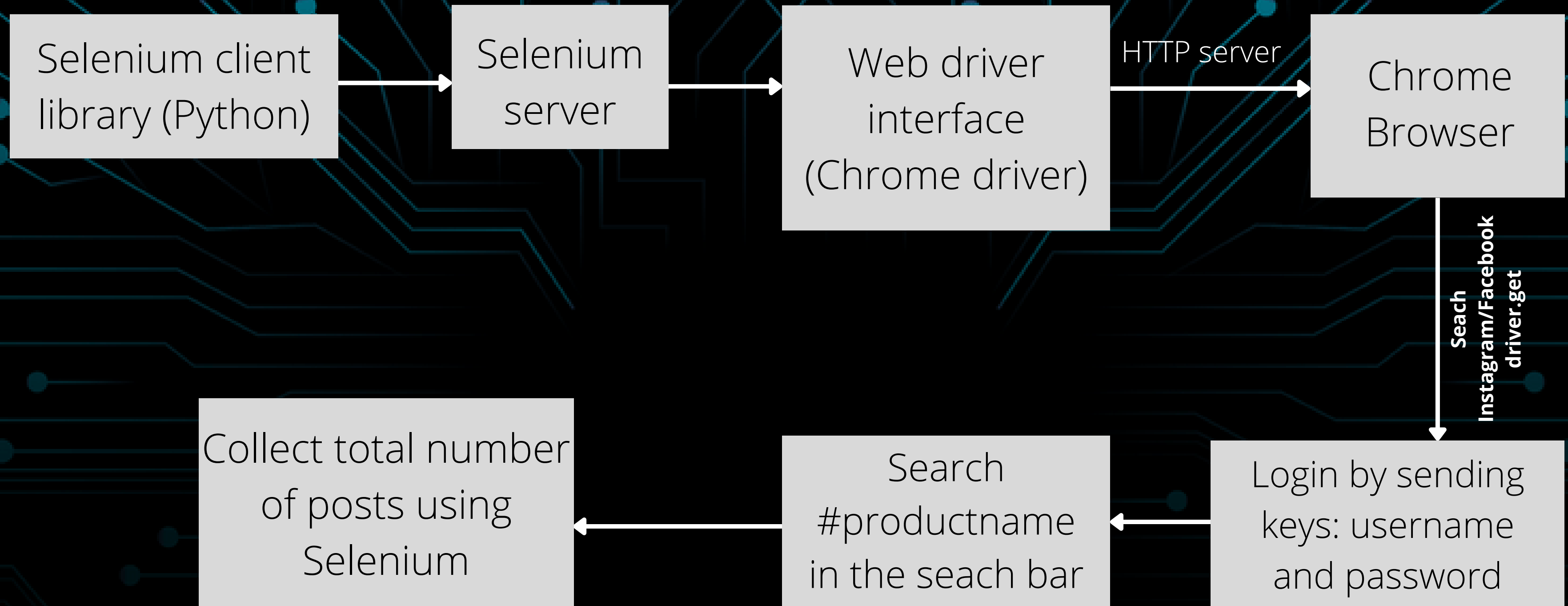
P2: The web app provides direct Flipkart links for the ease of the users and provides them with a Happy Shopping experience

SOLUTION STATEMENT

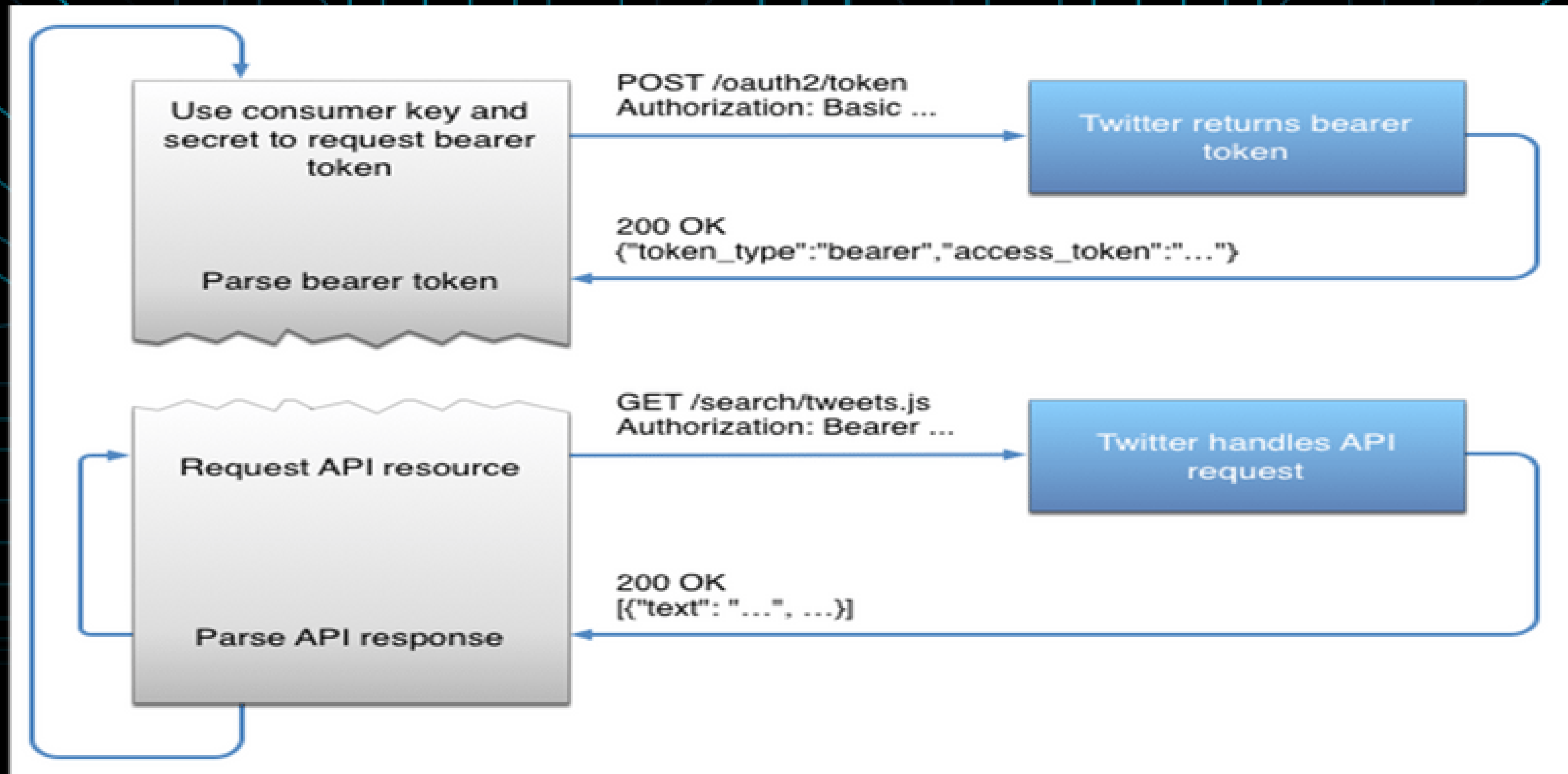
DATA SOURCES:



REAL-TIME DATA EXTRACTION:



Facebook and Instagram



Twitter

TREND CALCULATION:

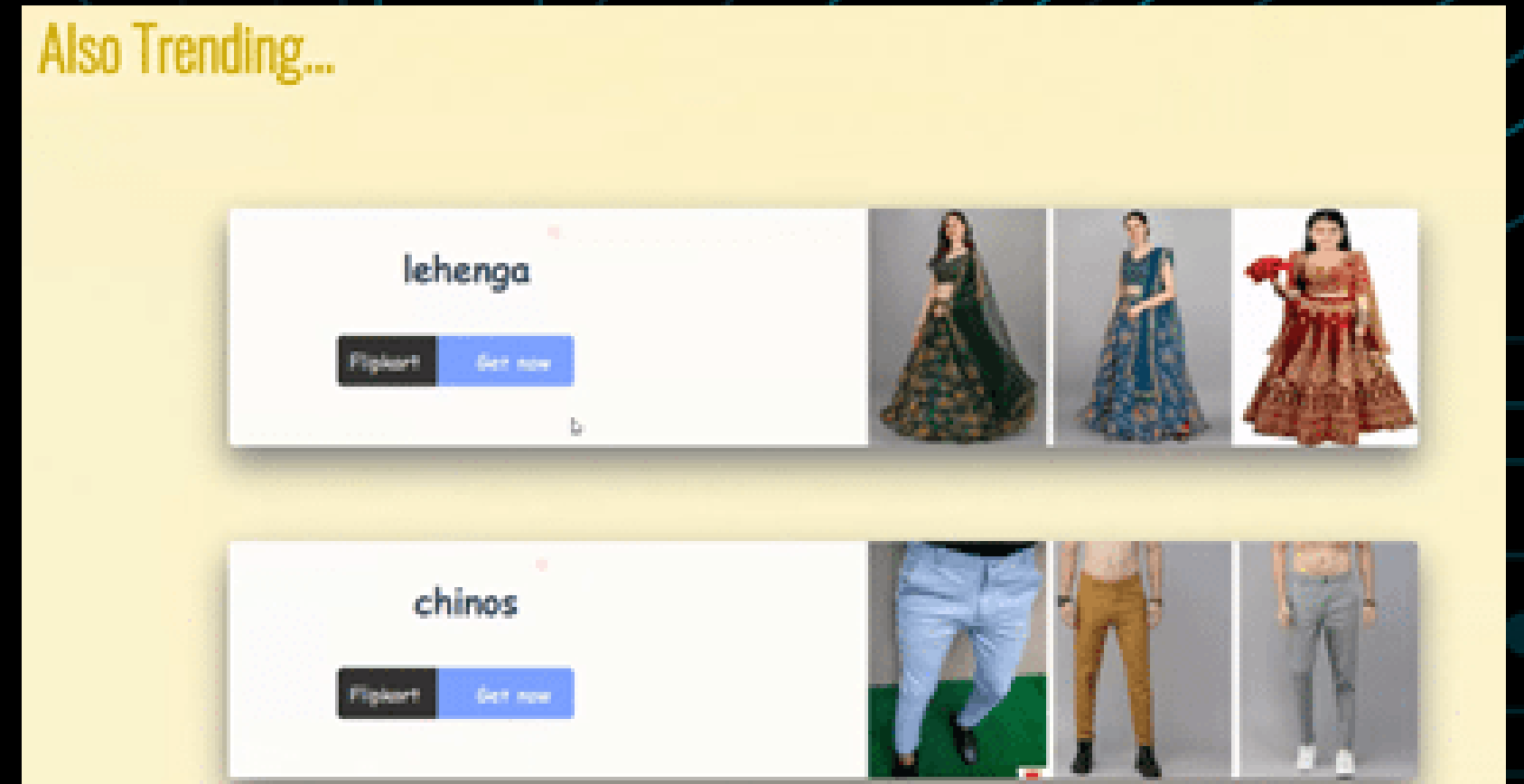
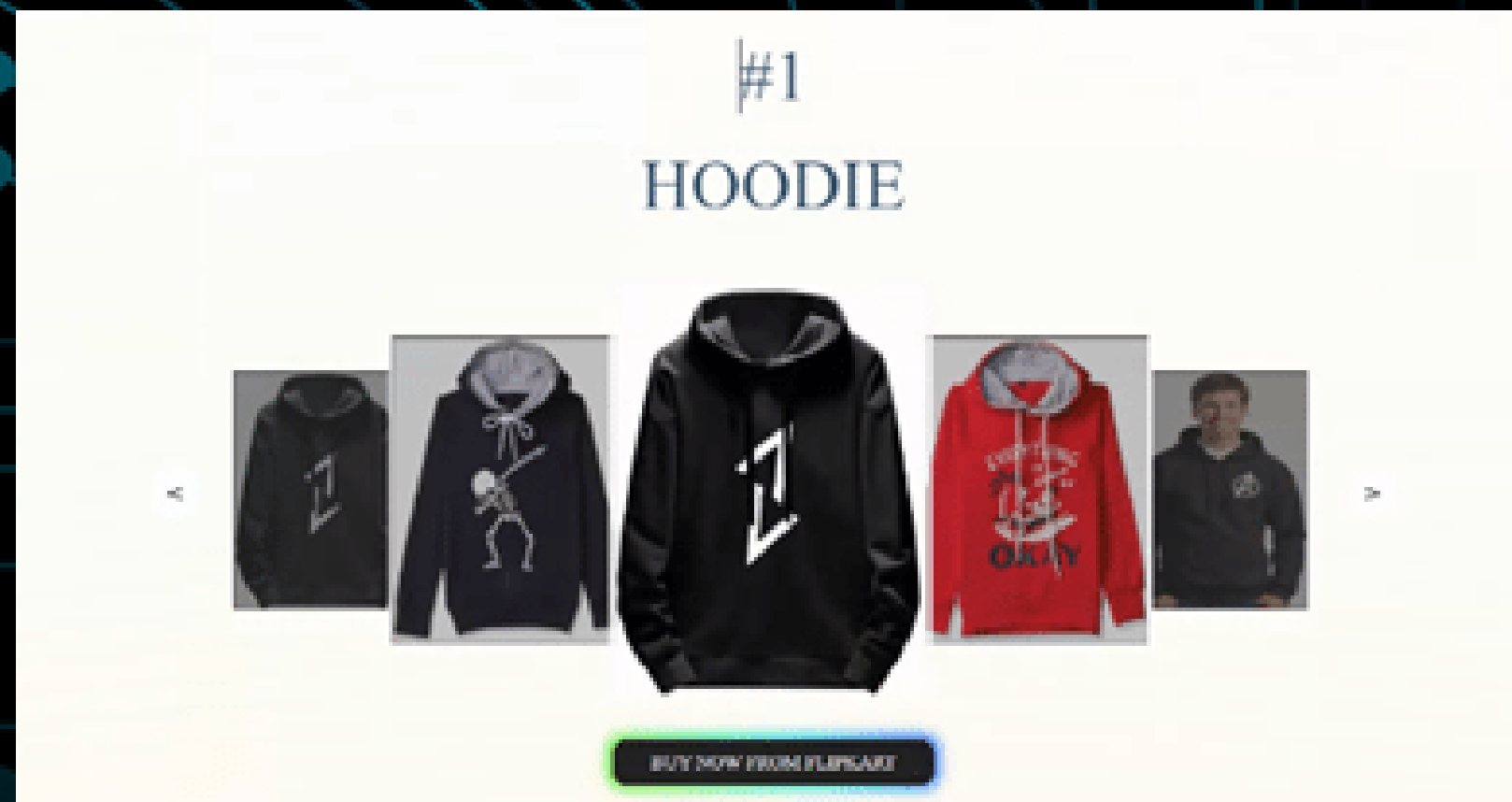
Applying min-max scaler to normalize the data



Using Block baron ranking to rank the trending products

Top Trending products

Other Trends



Flipkart gateway to buy
the trending product

USER-INTERFACE:

Allows user to search
for their own trends

SEARCH YOUR OWN TREND...

for searching please add # first...

Get Trend...



ITEM NAME
BELLBOTTOM

17K PEOPLE ARE TALKING ABOUT YOUR TREND ON FACEBOOK
117,820 PEOPLE ARE TALKING ABOUT YOUR TREND ON INSTAGRAM
103 RECENT TWITTER POSTS ON THIS TREND

Three vertical images of bell-bottom pants are displayed side-by-side. The first image shows light blue jeans. The second image shows plaid pants. The third image shows dark blue jeans. Each image is set against a white background and is flanked by yellow vertical bars.

Custom search
result alongwith
flipkart gateway for
a Happy Shopping
experience

ARCHITECTURE:

Frontend:

- Use of a commercially popular framework (library), JS, JQuery
- CSS, helps in styling the web application and is easy to use

Backend:

- FLASK, a Python backend framework is used
- SELENIUM
- TWITTER API
- Other Python Libraries (NumPy, Pandas)

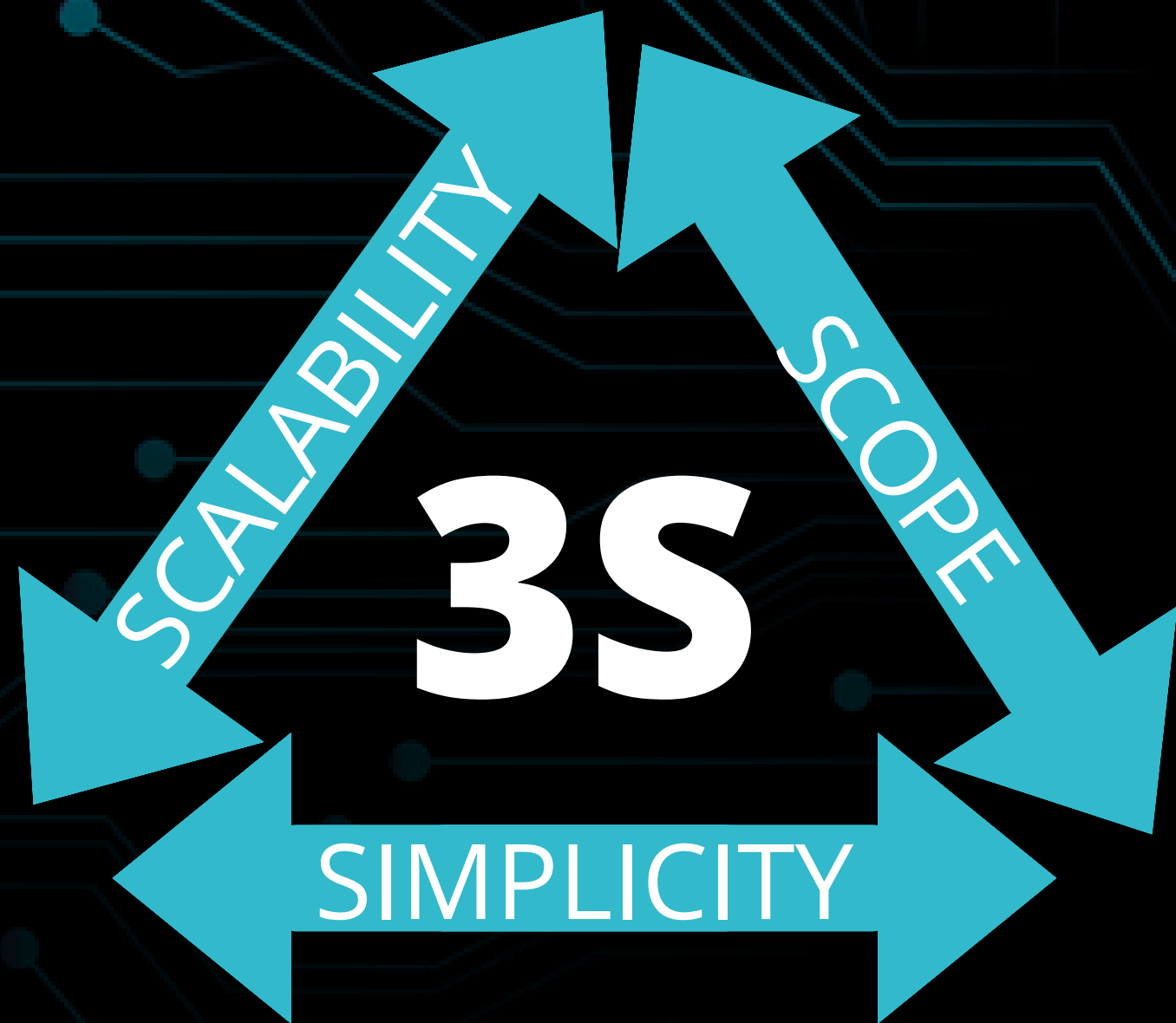
SHORTCOMINGS

- Less number of categories/products
- Limited number of Social Media Sites to extract trends
- Since Selenium is a power-consuming library, it takes some amount of time for data extraction

FUTURE SCOPE

- Features used (implicit + explicit feedback)
- Feedback -> Enhancement (loop)
- Deployment on Cloud -> Handling multiple requests
- Query-based recommendations

WHY OUR PROJECT?



SIMPLICITY:

- Easy to understand, implement and deploy

SCOPE:

- Easy to add input features

SUSTAINABILITY:

- Resulting from the above 3 S's