LuxSearch

Group 2

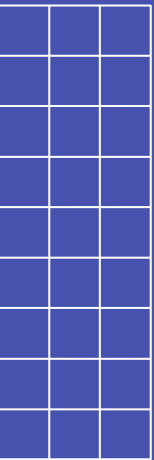The search engine to provide users with a better social perspective of luxury brands.

Motivation

- Growing trend of luxury brand consumption – especially younger generation

- Consumers want to support brands that align with their values beyond mere product reviews

- Public talk is only available through social media

LuxSearch

- A sleek & user friendly search engine
- Finds information from Twitter & Reddit
- Sentiment analysis is also performed on the results
- Allows users to make informed decisions to support the brand

Roles

Titus
Classification

Mohamed Irfan
Frontend, Backend, Indexing, Elasticsearch

Yew Han
Classification

Zhi Quan
Classification, Crawling

Joceline
Classification, Crawling
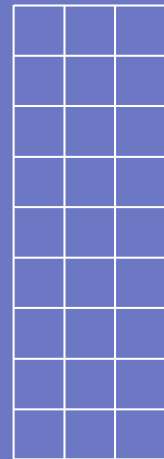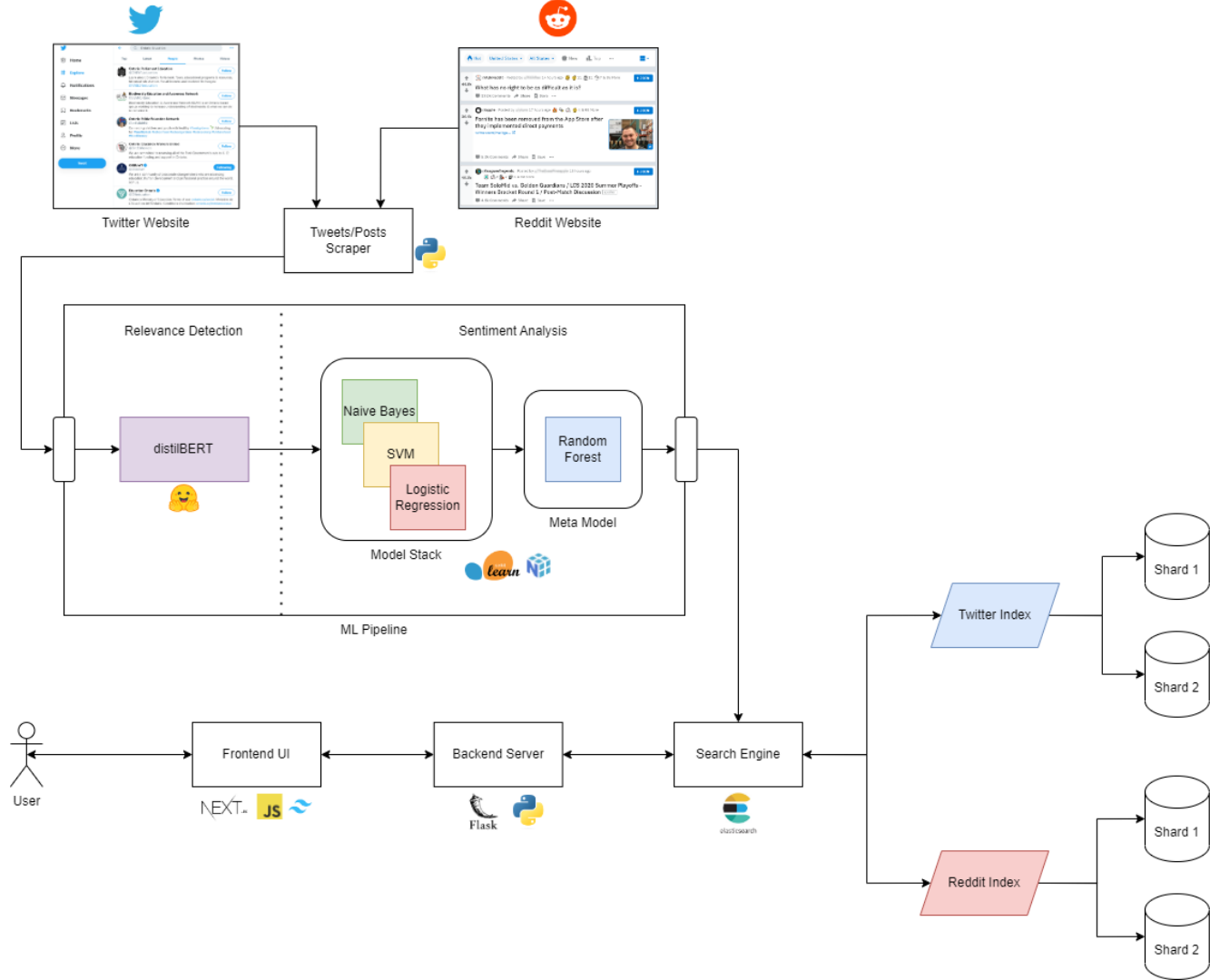
Liwen
Classification

Tech Stack

NEXT.js

Flask
web development,
one drop at a time

tailwindcss

elasticsearch

🤗 Hugging Face

scikit learn

System Architecture

Twitter Website

Reddit Website

Tweets/Posts Scraper

ML Pipeline

Relevance Detection

Sentiment Analysis

distilBERT

Model Stack

Naive Bayes

SVM

Logistic Regression

Random Forest

Meta Model

User

Frontend UI

Backend Server

Search Engine

Twitter Index

Shard 1

Shard 2

Reddit Index

Shard 1

Shard 2

Demo