

TrendMate - Fashion Intelligence System

Project Mentor: Prof. Poonam Saini Faculty, Computer Science and Engineering.

Project Team:

1. Aayush Gupta (19103026)
2. Avneesh Goyal (19103010)
3. Akshit Garg (19103008)
4. Abhinav Marwaha (19103004)

Problem Statement

Fashion Designers need inspiration and want to know what people will like to make new designs. In the high-end competitive fashion market, companies need to know beforehand which clothes will be in demand in the future to decide the quantity to produce. Also, customers want to buy new and trendy designs so that they can spend their money on the right product. So we propose an intelligent fashion system.

The system will be able to predict new and trending designs.

Aims and Objectives(Proposed Solution)

The objective of this project is to develop a fashion trends forecasting system.

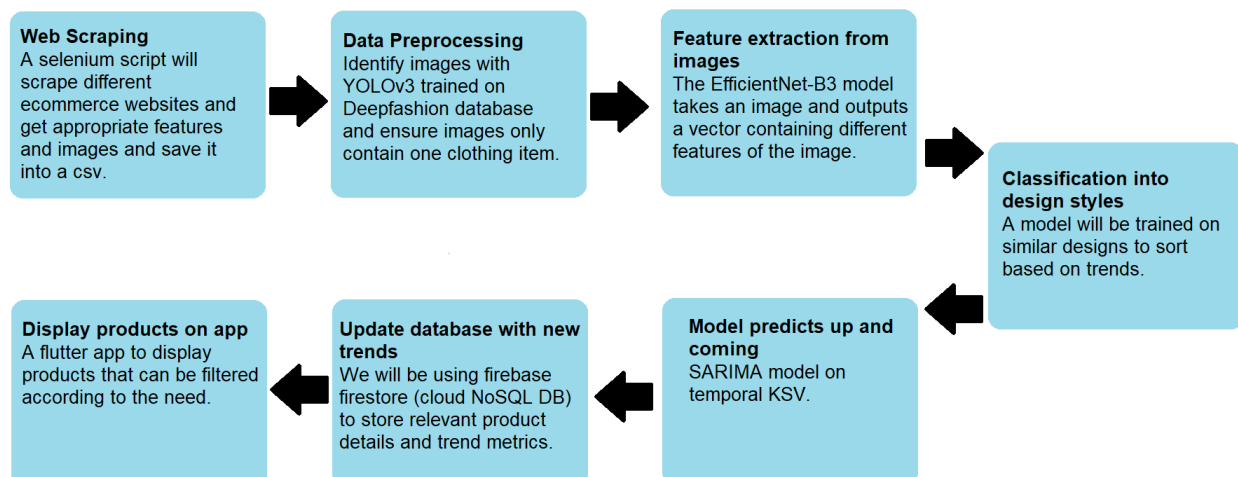
Expected achievements to fulfill the objectives are:

- To ascertain trendiness.
- To scrape clothing product details from different e-commerce websites.
- To extract important features from product images.
- To ascertain which features to consider (reviews, description, etc.)
- To classify design styles.
- To forecast up-and-coming fashion trends.
- To display different products to customers in an appropriate UI on the mobile app.
- To ensure a great User Experience.

Motivation

- Reducing the time and effort customers spend on different websites comparing designs and prices.
- A central platform to take inspiration from.
- Reduce wastage of clothing stock.

Work-Flow

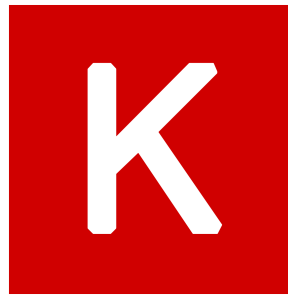


Tech-Stack

1. Flutter (App Development)
2. Flask (hosting models and web scraping)
3. Firebase (DB)
4. TensorFlow, Keras, sklearn, pandas, NumPy, Matplotlib (data science and AI)
5. Selenium (Web Scraping)



Flask



NumPy

