

Assignment 1

SE3080 – SPM Semester 2

Group 1	Number:SE-S2-WE-11	
Name of research paper 1: Sales Optimization Solution for Fashion Retail		
Limitati	ions of research paper 1:	
•	Limited Data Scope: The research paper seems to use limited datasets. For example, the sales forecasting component uses data from only one platform (Wish) and only for summer fashion products. Timeframe: The data seems to be from July 2020 which may not be valid for long-term trends or seasonality. Focus: The study is mainly focused on women's clothing Limited real-world testing: There is no mention of testing these models in a real retail environment Lack of comparison: The paper doesn't extensively compare these methods with other existing solutions in industry	



Assignment 1

SE3080 – SPM Semester 2

Improvements or extensions suggested to research paper 1:

- Expand Data Scope: Incorporate data from multiple retail platforms to make the model more robust.
- Include more product categories: Extend the analysis to men's clothing, accessories and other fashion segments.
- Incorporate external factors: Include external factors such as economic indicators, weather and social media trends that might influence fashion.
- Add a recommendation system: Implement a product recommendation system based on the customer segmentation and demand analysis.



Assignment 1

SE3080 – SPM Semester 2

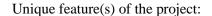
Proposed project topic: Fashion Product Recommendation Er	
How the identified improvements or extensions will be addressed by	y the project:

- Fashion is volatile and highly influenced by seasonal trends. Traditional recommendation systems
 may not fully capture these dynamic changes in customer preferences. So, our system will
 incorporate seasonal trends by analyzing data from various fashion sources, including social media,
 and seasonal sales data. Moreover, we will enhance our recommendation system by integrating
 user's search history.
- This allows the system to personalize recommendations based on individual user preferences. As
 an example, if a user frequently searches belongs to summer clothing category, the system will
 prioritize such items in trends for future recommendations.



Assignment 1

SE3080 – SPM Semester 2



• Recommendation system: Implement a product recommendation system based on the customer search history and seasonal trend awareness.

Functions of member 1 – Sandeepa K.B.A.R. IT21809088

Order Management

- CRUD Operations Create, list, edit and delete orders
- Payment gateway
- Report generation



Assignment 1

SE3080 – SPM Semester 2

Functions of member 2 – Weerasinghe C.D. IT19211688

ML model

• Train, collect & prepare data for the model to predict which products users are most likely to interact with based on their search history, current season and fashion trends.

Functions of member 3 – Dias D.D.K.S. IT21220760

Inventory Management

- CRUD Operations Add, list, edit and delete products
- Report generation



Assignment 1

SE3080 – SPM Semester 2

Functions of member 4 – Wickramasinghe S.S.Y. IT21816086

User Management

- CRUD Operations Add, list, edit and delete users
- Report generation