



The Product Recommendation for H&M

Course: BIA 679

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Team Members:



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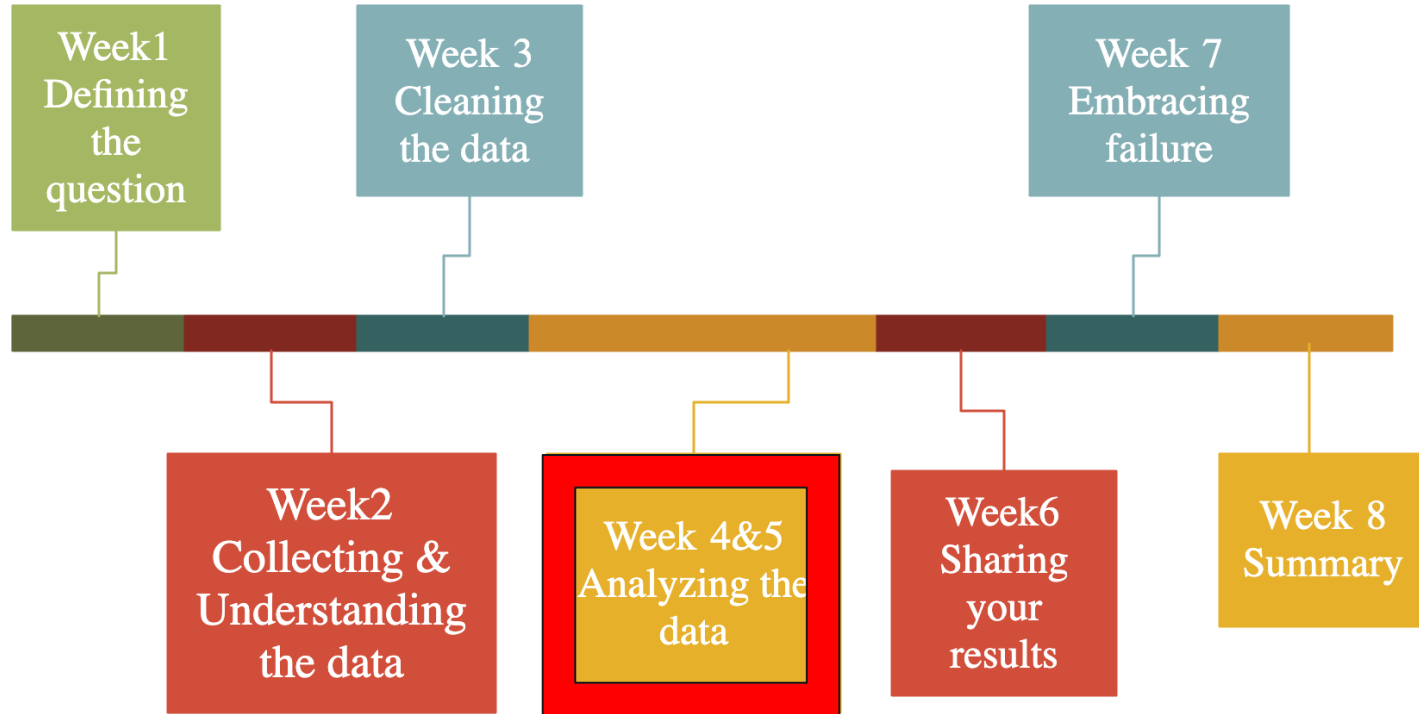


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BIA 679 Group Project





What's New?

Modeling

1. **Continue the model**
2. **Evaluate the model**
3. **Generate the recommendation**
4. **Visualized the result**



Something Stuck

- 1. Linkage between Spark and S3**
- 2. Transformation between data-frame in spark and S3**



What's Next?

Model building:

- 1. Reload to the AWS**
- 2. Test the model in S3**



Modeling

<https://github.com/tychen17/The-Product-Recommendation-for-H-M>



Reference

1. Zhao, Xuesong. “A Study on e-Commerce Recommender System Based on Big Data.” *2019 IEEE 4th International Conference on Cloud Computing and Big Data Analysis (ICCCBDA)*, 2019, <https://doi.org/10.1109/icccbda.2019.8725694>.
2. Jessica Young | Feb 18, 2022, et al. “US Ecommerce Grows 14.2% in 2021.” *Digital Commerce 360*, 16 Sept. 2022, <https://www.digitalcommerce360.com/article/us-ecommerce-sales/>.
3. “H&M Personalized Fashion Recommendations.” *Kaggle*, <https://www.kaggle.com/competitions/h-and-m-personalized-fashion-recommendations/data>.
4. Liao, Kevin. “Prototyping a Recommender System Step by Step Part 2: Alternating Least Square (ALS) Matrix Factorization in Collaborative Filtering.” Medium, Towards Data Science, 19 Nov. 2018, <https://towardsdatascience.com/prototyping-a-recommender-system-step-by-step-part-2-alternating-least-square-als-matrix-4a76c58714a1>.
5. “Alternating Least Squares.” Apache Flink 1.2 Documentation: Alternating Least Squares, 19 Oct. 2022, <https://nightlies.apache.org/flink/flink-docs-release-1.2/dev/libs/ml/als.html>.



Thank you