



# Fashion Wizard

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# Project Description

Similar Cloths Search using a Image Key(Image can be a pure cloth image or Human/Object wearing cloths)

In the real life, when we want to buy a specific or similar cloths from a cloth store(for example: H&M), we show a sample picture to the sales person. Then, the sales person displays the exact cloth or some cloths of similar patterns and textures.

Taking the idea into image processing and deep learning, the proposed application will take an image as input for the search key and give the exact or similar cloths(similar patterns and textures) as output. This application could be used in the online store or chatbot.



# Planning

1. **Proposed Dataset:** Deep Fashion
2. **Proposed Model:** Image segmentation and clustering using faster R-CNN or masked R-CNN
3. **Steps:**
  - a. Dataset analysis
  - b. Study research paper related with the dataset
  - c. Extract Features from Images as Numeric Matrix
  - d. Using a library to search using key (for example: FAISS)



## References

1. <http://mmlab.ie.cuhk.edu.hk/projects/DeepFashion/FashionSynthesis.html>
2. <https://liuziwei7.github.io/projects/DeepFashion.html>
3. <https://mmlab.ie.cuhk.edu.hk/projects/FashionGAN/>
4. <https://github.com/facebookresearch/faiss>