Introduction:

Most of the time we see a celebrity look online that we’d want to try but cannot find similar one’s on common e-commerce websites. Our solution aims to help users find desired celebrity wardrobe from across commonly used e-commerce websites.

Installations:

Sublime Text Editor - Latest Version (For GUI)

Pycharm IDE (Python version-3.6)

ML Libraries (Tensorflow, Keras)

Flask Framework for Integration

Install the libraries imported in files.

Model/Architechture:

Data Preparation: Use matplotlib for analysis and Graph preparation.

Dataset: Is a subset of Fashion Dataset available on Kaggle.

Item Embedding: Is used to analyze item-item relations to produce item similarities.

Deep Learning Algorithm: Convolution Neural Network (Refer main.ipynb)

Flask Framework is used for Deployment of Deep Learning Module on Website (Refer flaskapp.py)

Image Scrapping from various websites via Baidu Search Engine

References:

* <https://www.kaggle.com/marlesson/building-a-recommendation-system-using-cnn>
* DeepFashion: Powering Robust Clothes Recognition and Retrievel with Rich Annotations, Ziwei Liu et al., 2016
* <http://cs231n.github.io/transfer-learning/>
* <https://leon.bottou.org/publications/pdf/compstat-2010.pdf>
* <https://medium.com/@birdortyedi_23820/deep-learning-lab-episode-4-deep-fashion-2df9e15a63e1>