Fashion-Forward Image Search Tool

Melanie Appleby June 23rd, 2016

Category of Clothing

Color

Pattern

Fabric

Style

Accents

Length

Neckline

Sleeves

etc...



FIND IT

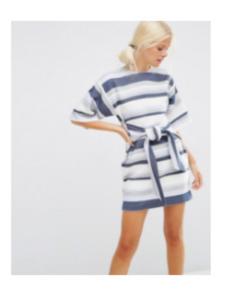
What would you like to find?

Please upload an image of clothing here:









Retailer
Item Description
Price
Clickable URL



ASOS Front-Tie Shift Dress \$78



NET-A-PORTER Blah Blah \$150



NORDSTROM'S Another Dress \$XX



BLAH Another Dress \$XX

The Data



Image Preprocessing

OpenCV's Pre-Trained Haar-Cascade Classifier



Process & Tools

Train an image classifier with TensorFlow's convolutional neural network



Process & Tools

- 1. OpenCV's SIFT key point detection algorithm
- 2. Minibatch K-Means for clustering
- 3. Histogram for comparability
- 4. Nearest Neighbors model



FIND IT

What would you like to find?

 ${\it Please upload \ an \ image \ of \ clothing \ here:}$





Thank You!

Melanie Appleby

applebym12@gmail.com melanieappleby.com

applebym