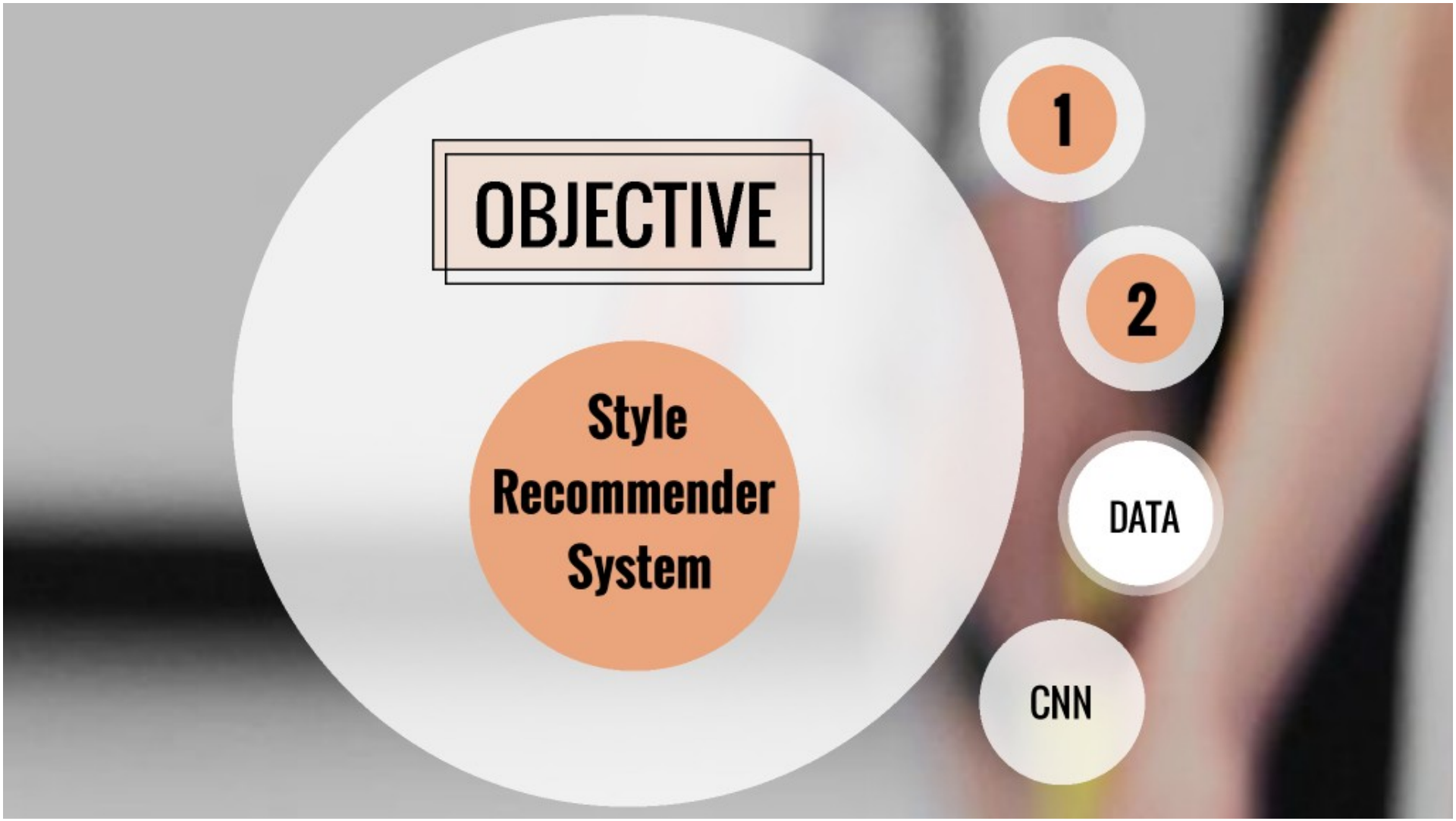
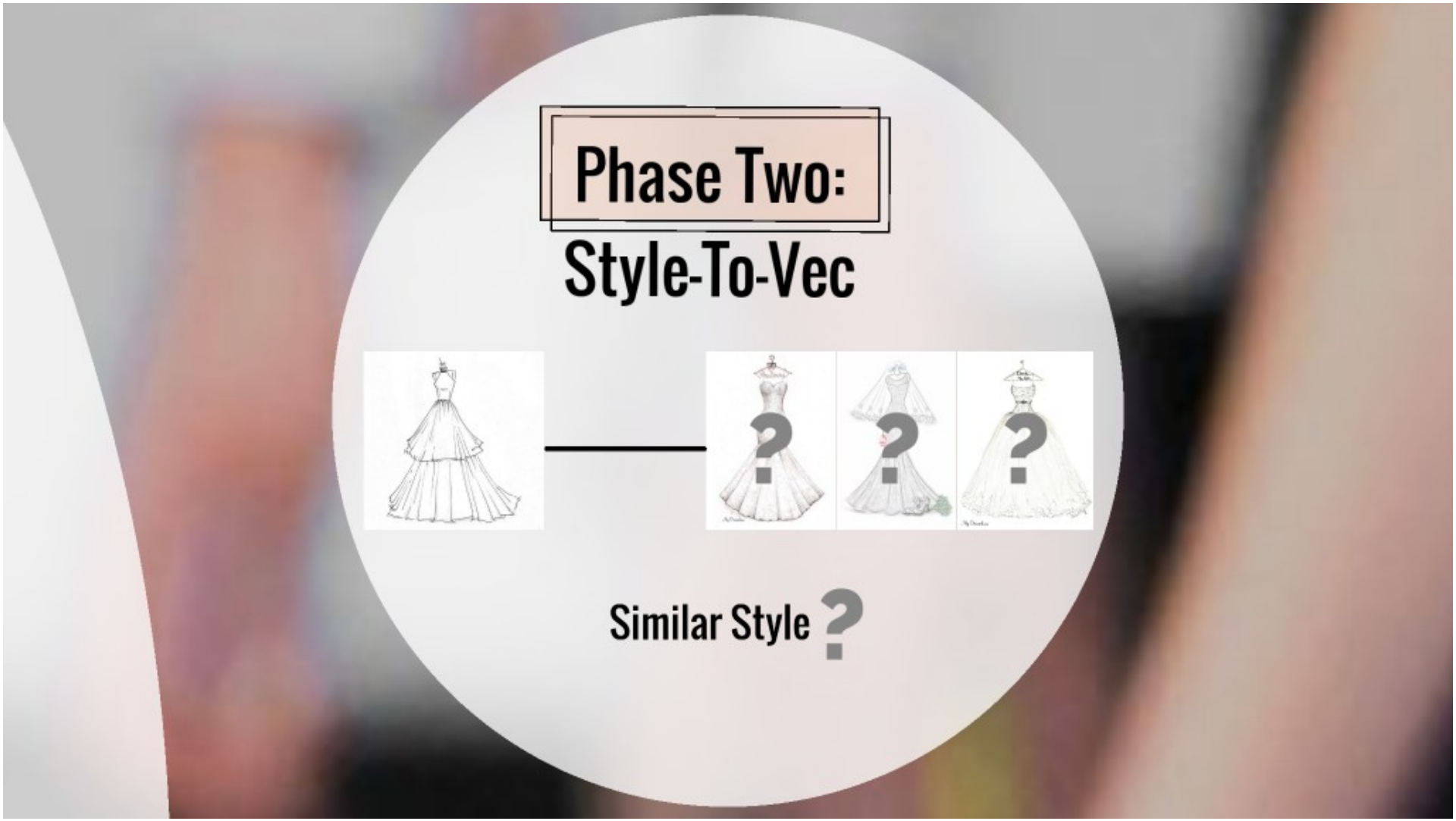
Give Me That Jacket
FASHION RECOMMENDER
Presenter: Kayleigh Li
APPLICATION
CNN
DATA
OBJECTIVE
RECOMMENDER


OBJECTIVE
Style Recommender System
1
2
DATA
CNN

Phase One:
Style Recognition
Coat
Jacket
Dress
Shirt
Cardigan
Skirt
Sweater
Jumpsuit
Pants
Top


Phase Two:
Style-To-Vec
Similar Style ?

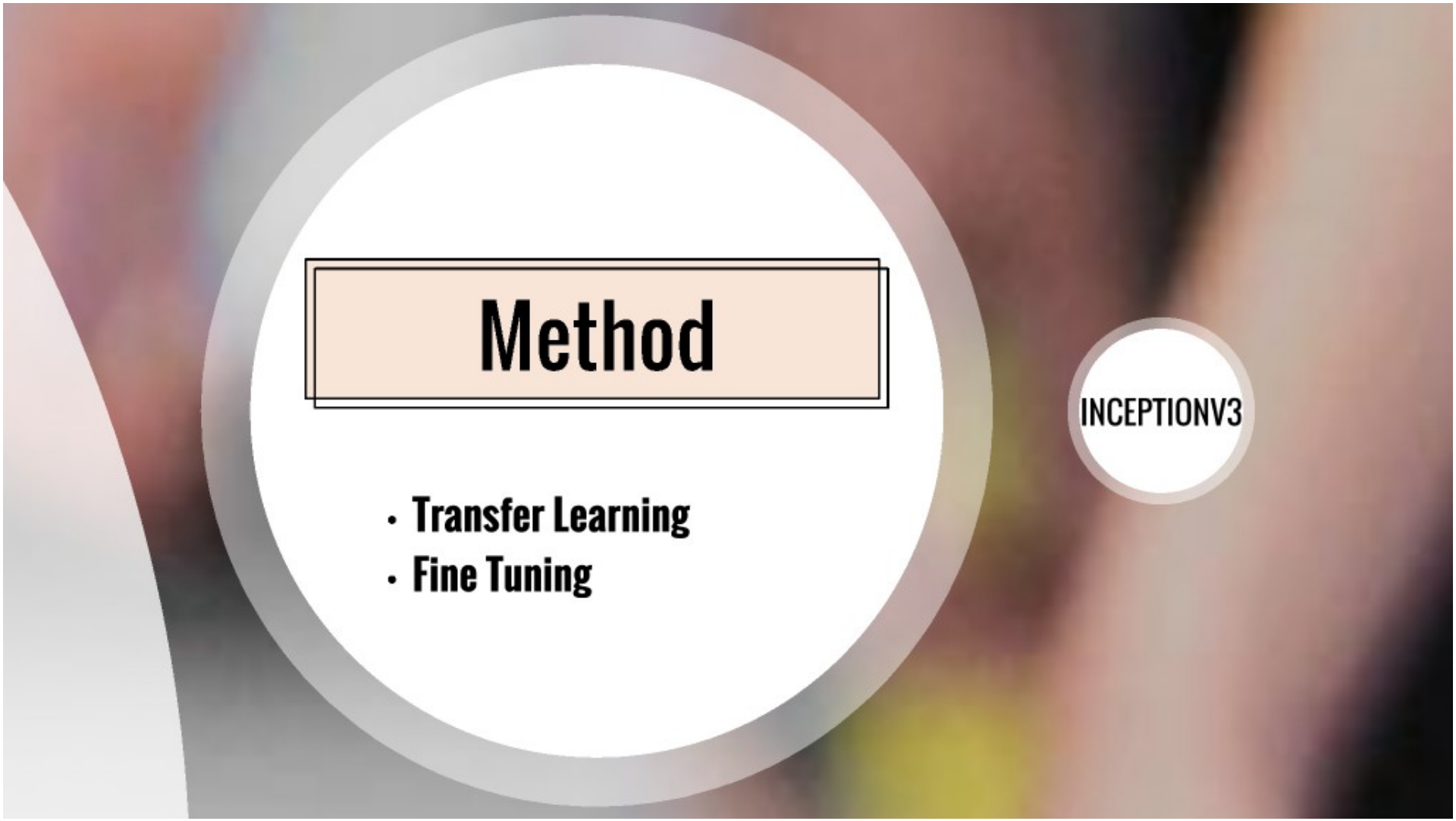
DeepFashion Dataset

- 300,000+ Images
- 50,000+ Categories
- Men & Women
- Various sizes, lighting, backgrounds, angles

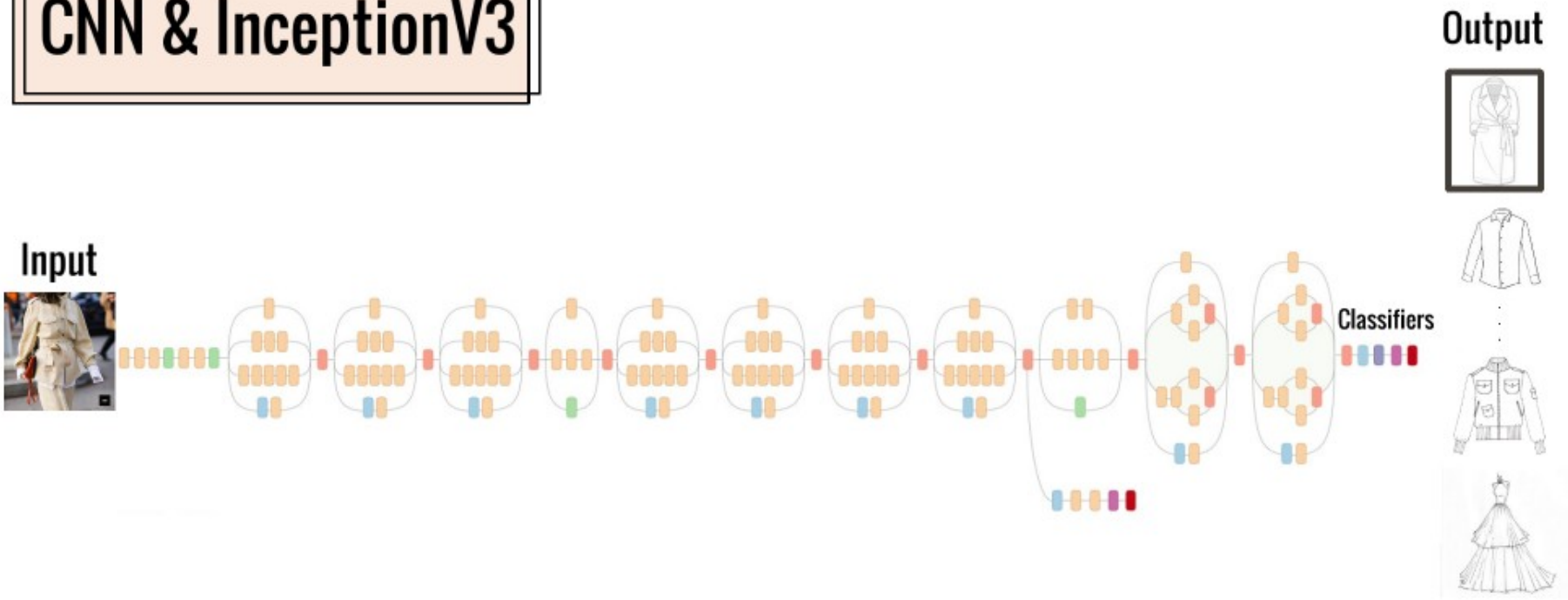
Magazine | Street | Selfie | Studio | Runway

Coat

PHASE ONE:
STYLE CLASSIFIER
Convolutional Neural Network
Keras
amazon
web services
TensorFlow
STRUCTURE
RESULTS


Method
INCEPTIONV3
• Transfer Learning
• Fine Tuning

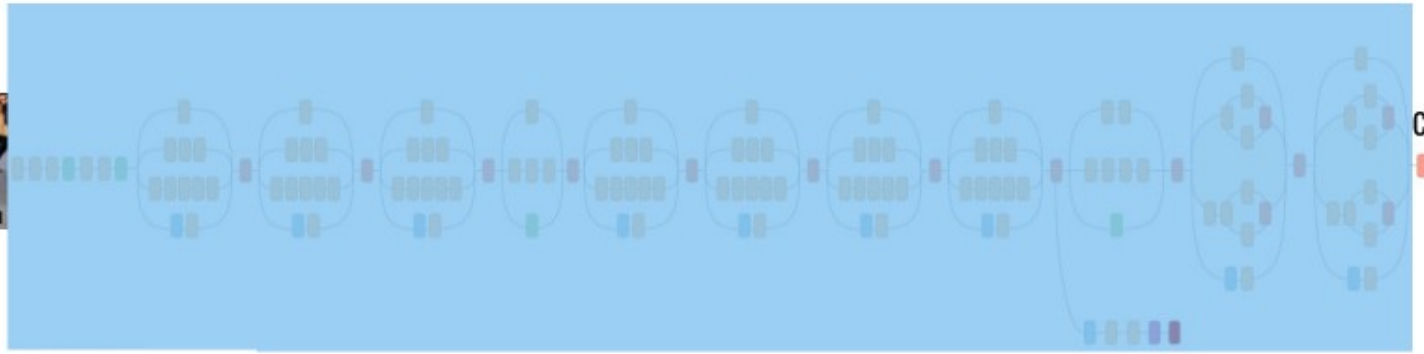
CNN & InceptionV3



CNN & InceptionV3

Output

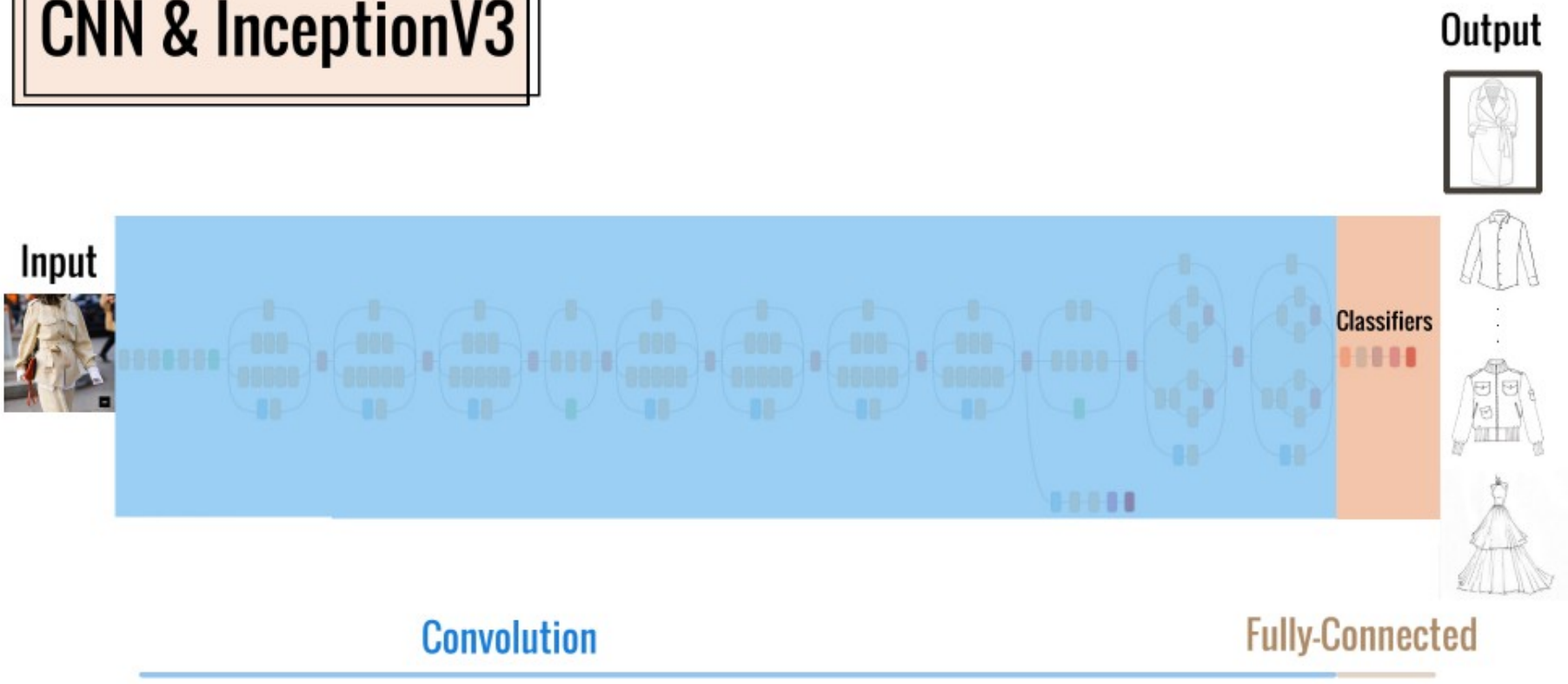
Input



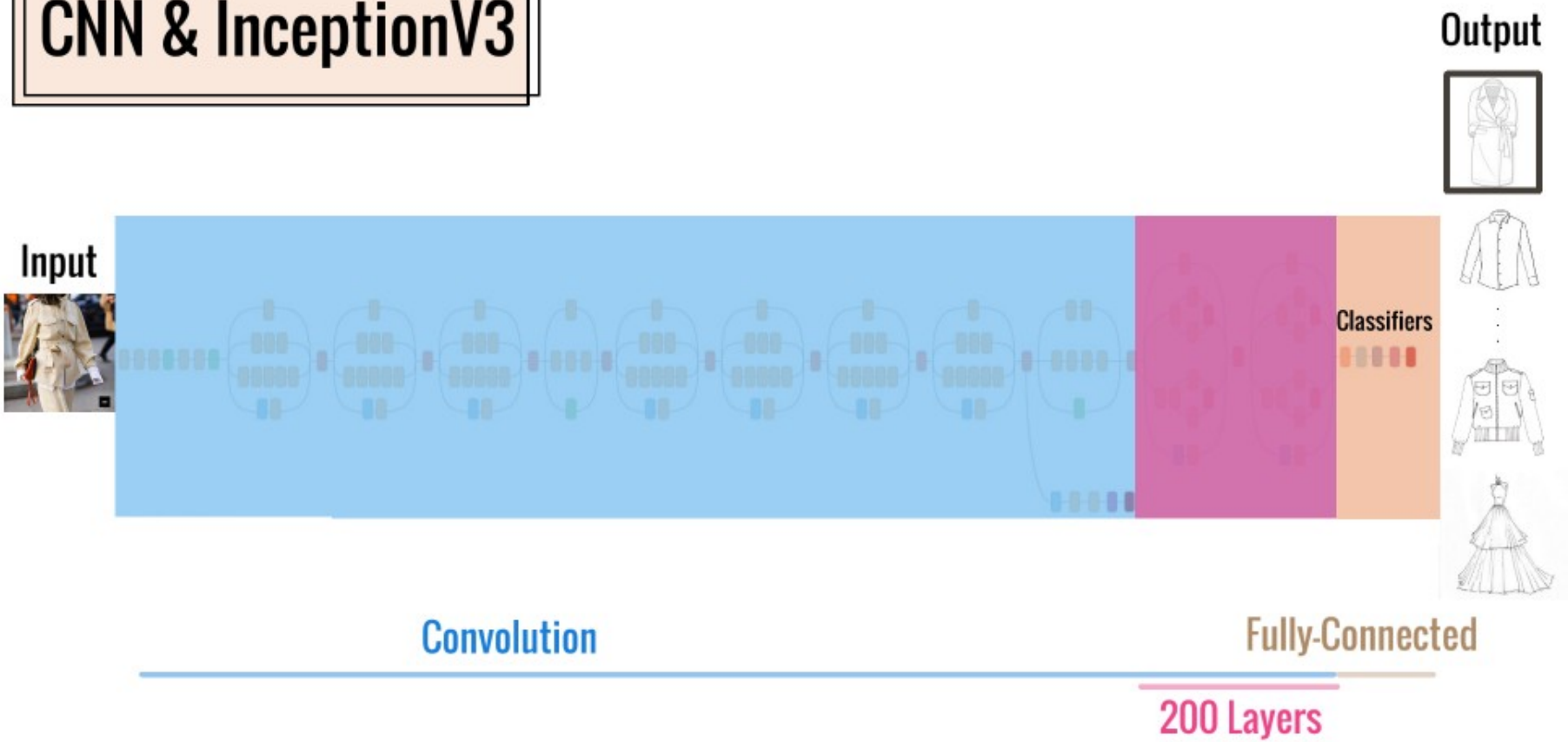
Classifiers

Convolution

CNN & InceptionV3



CNN & InceptionV3

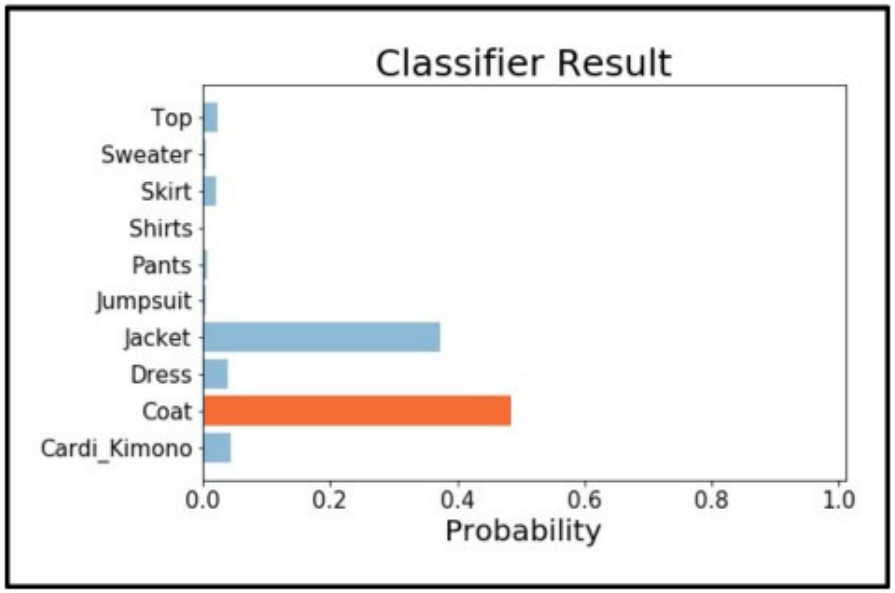


Classifier Performance

95% Accuracy

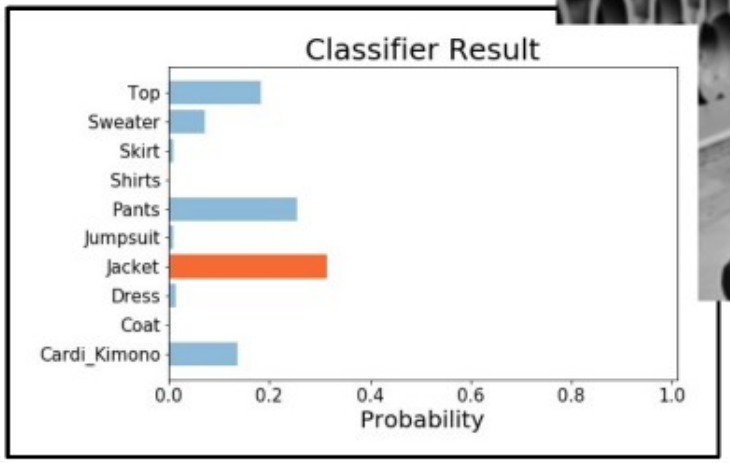
Results

Results


Classifier Result
Top
Sweater
Skirt
Shirts
Pants
Jumpsuit
Jacket
Dress
Coat
Cardi_Kimono
0.0
0.2
0.4
0.6
0.8
1.0
Probability

Results

Results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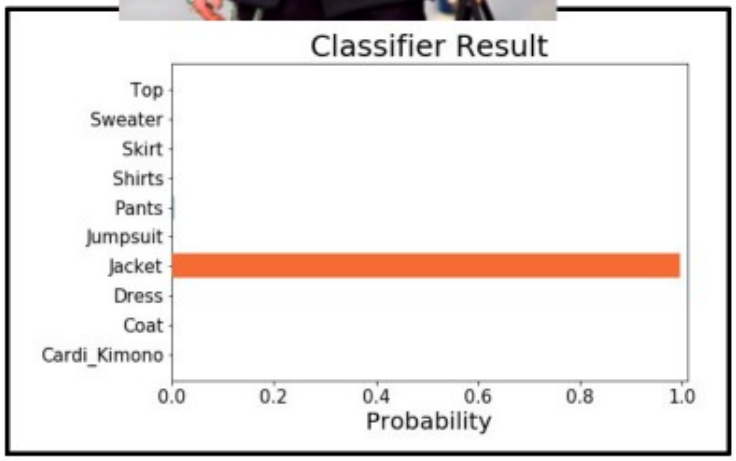
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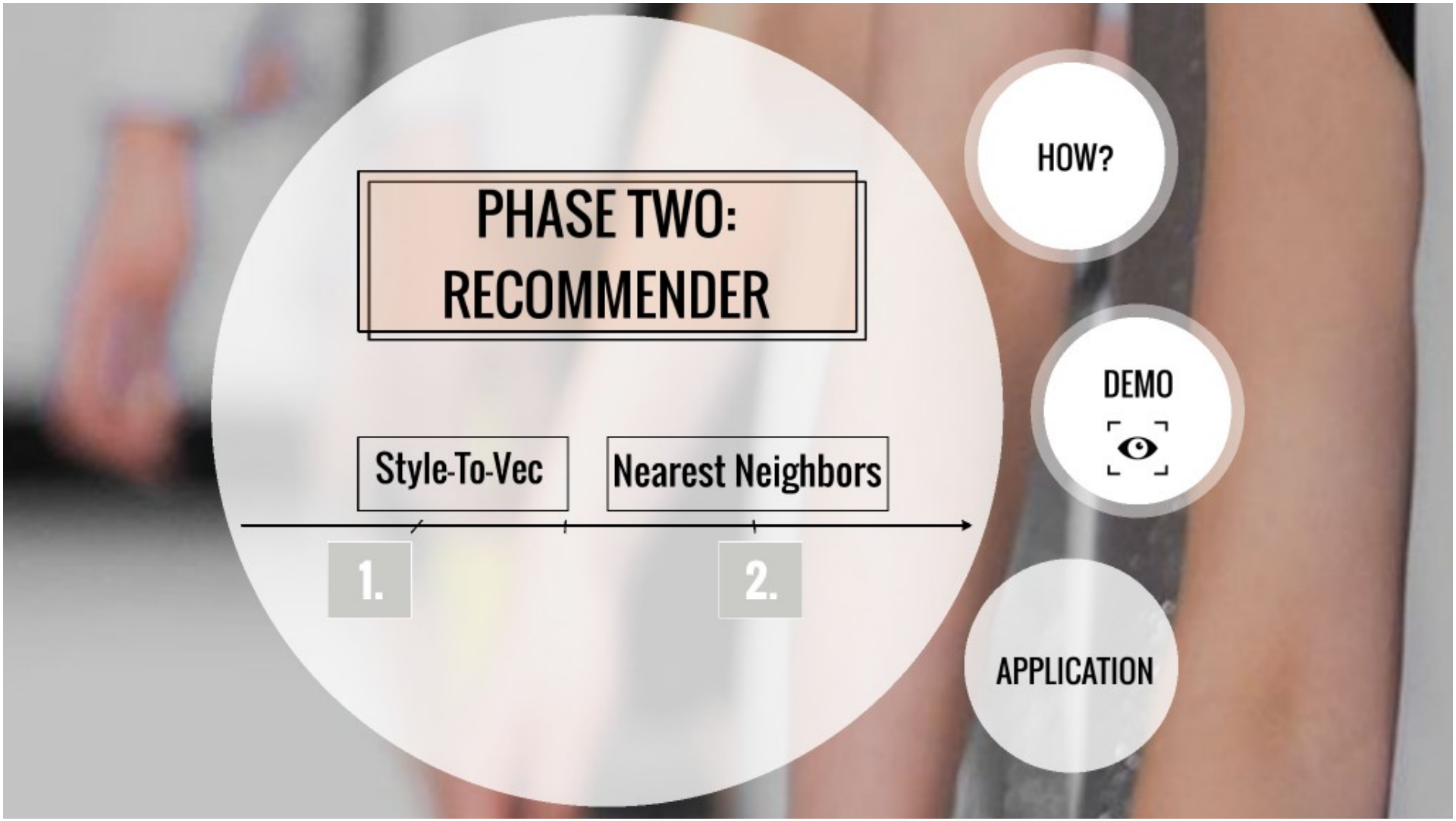

PHASE TWO:
RECOMMENDER
Style-To-Vec
Nearest Neighbors
1.
2.
HOW?
DEMO
APPLICATION

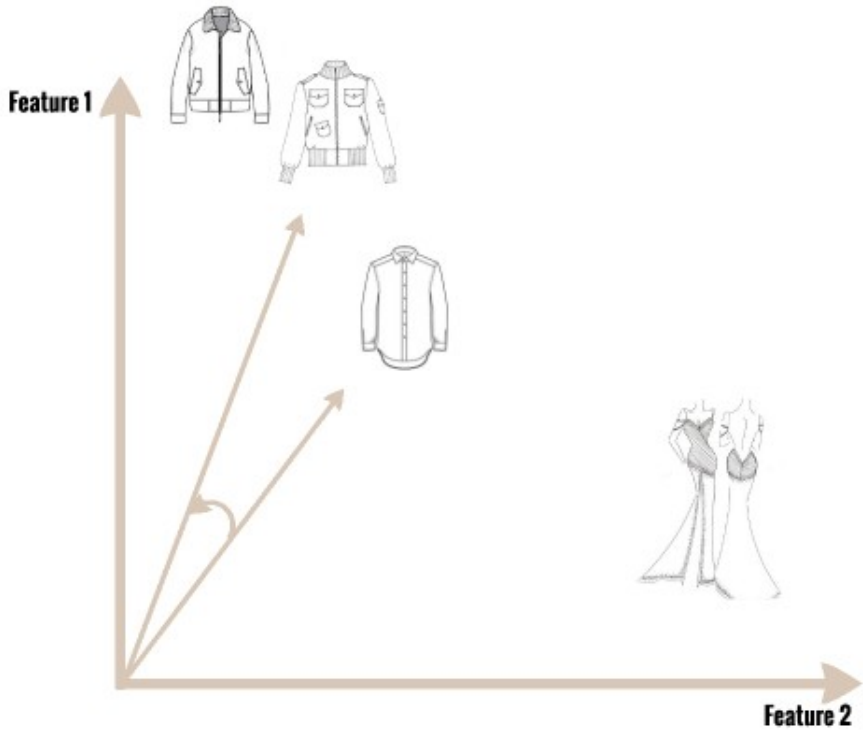
Style-To-Vec

Simlar Styles? – Nearest Neighbors

Cosine Distance

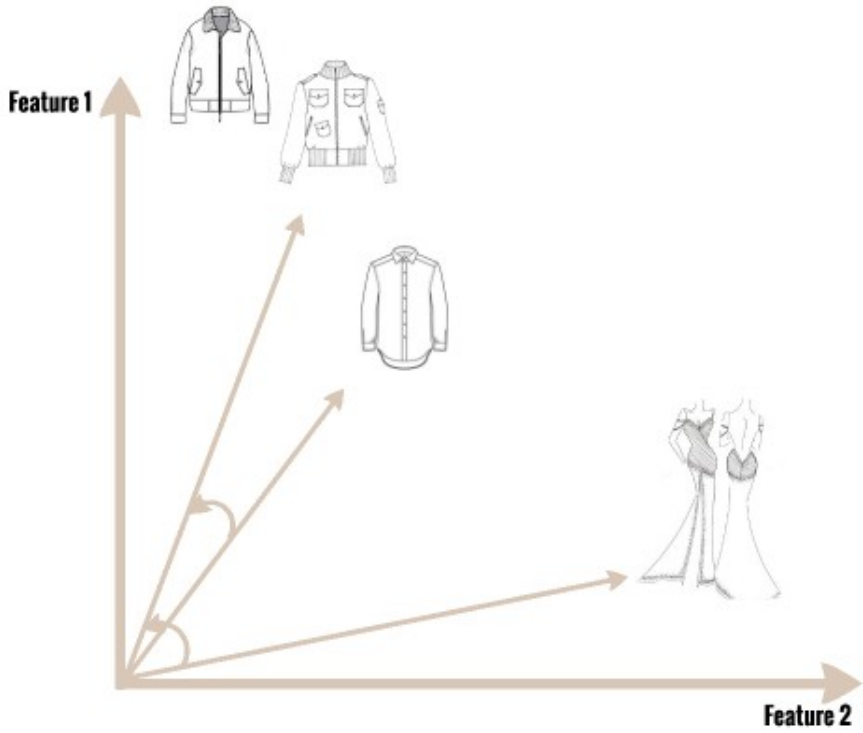
Simlar Styles? – Nearest Neighbors

Cosine Distance



Simlar Styles? – Nearest Neighbors

Cosine Distance



Applications
• Search engine for online shopping
• Image tagging & content detection
K.L.
APPENDIX

Kayleigh Li

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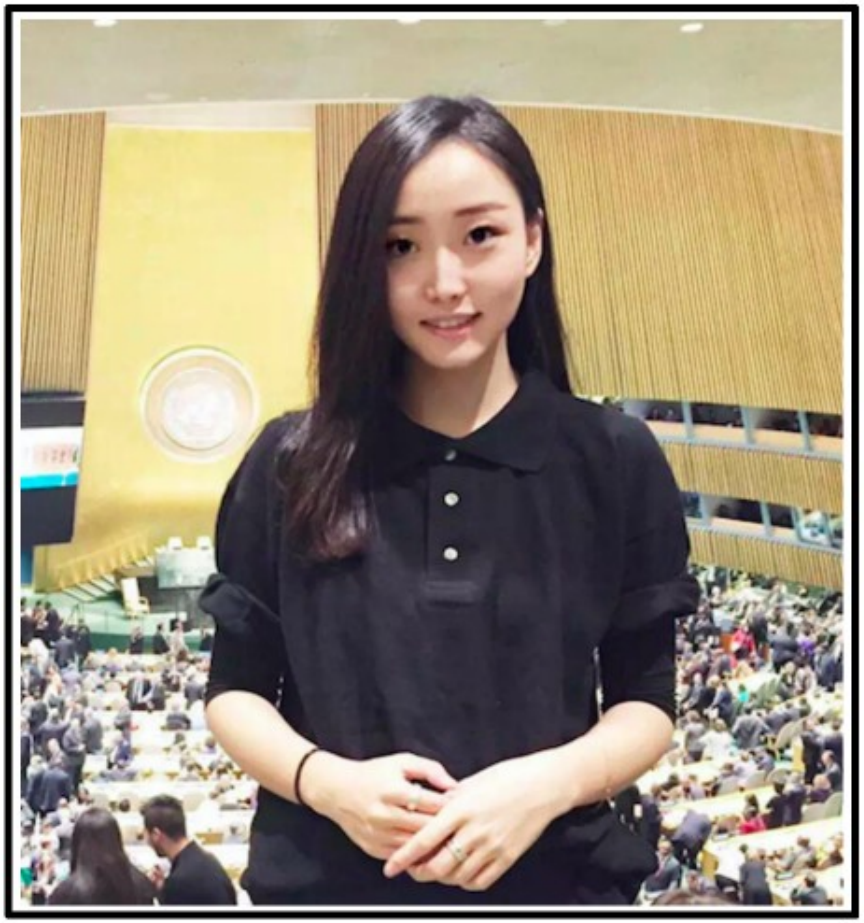
www. kayleighli.space