

Image style embedding based fashion recommendation system

Team: MEBO



Inspiration



Fashion retailers have a tough job of selling products without knowing the customers



Retailers have limited customer data (transactions and preferences) to make recommendations

COVID has fast-tracked ecommerce adoption by decades

[Total online spending in May 2020 hit \\$82.5 billion, up 77% year-over-year](#)



Retailers risk losing the customer to another website if they don't see the right product

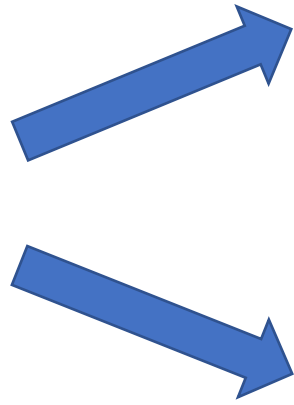


Proposition

- A cold-start solution
- No historical data needed
- Based on item features

Customer clicks on
a product

Eg – a shirt



Recommends Similar Products

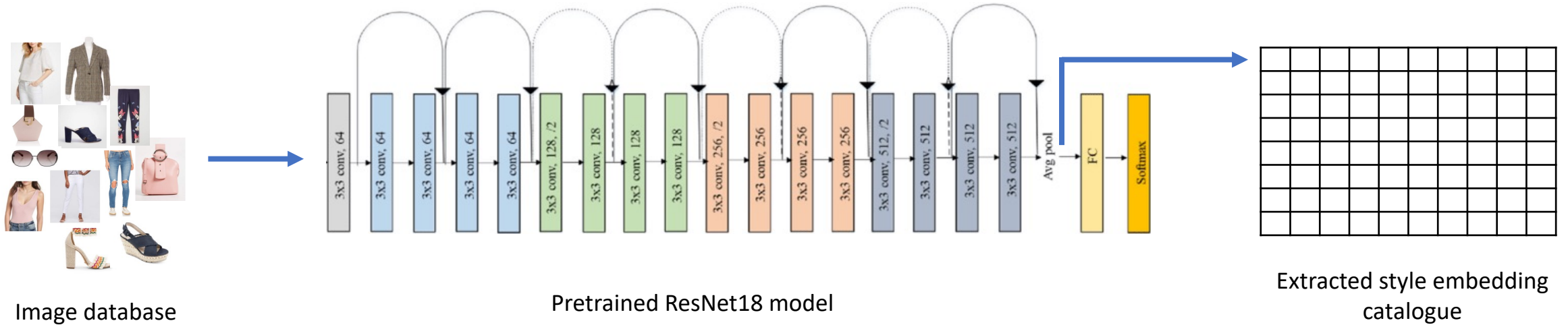
Eg – other shirts you might like

Recommends Complementary Products

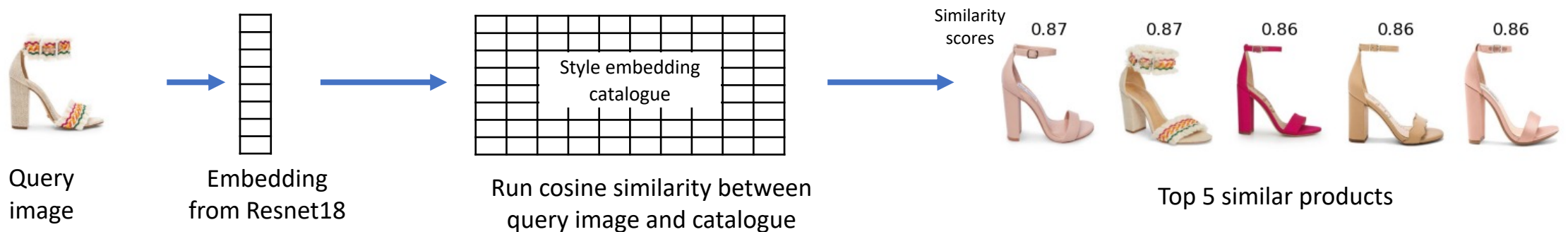
Eg – Pants, glasses, shoes that will go with the shirt

Recommend Similar Products - Methodology

1 Extracting style embedding for the entire image database



2 Match query image embedding with the database to get top 5 similar images



Recommend Similar Products - Results

Query image

Top 5 similar images



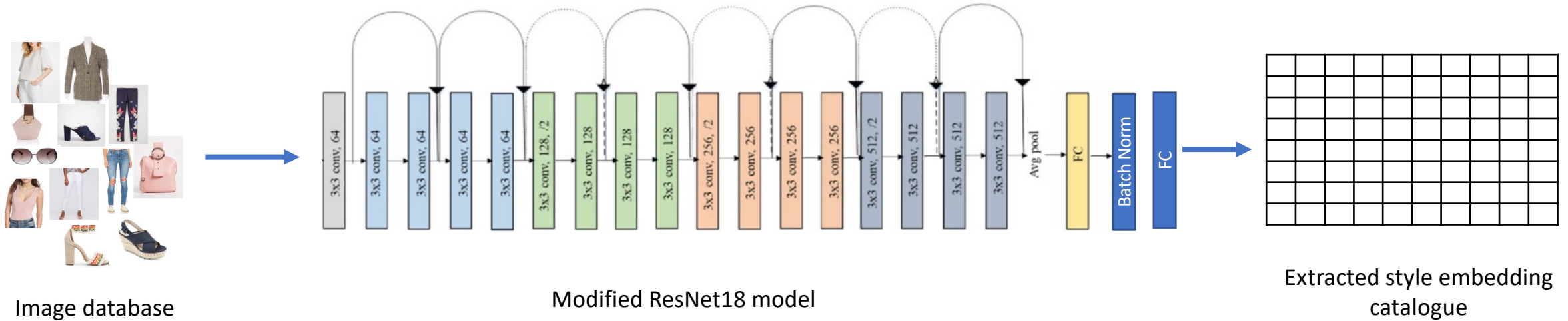
Query image

Top 5 similar images



Recommend Complementary Products - Methodology

1 Extracting style embedding for the entire image database

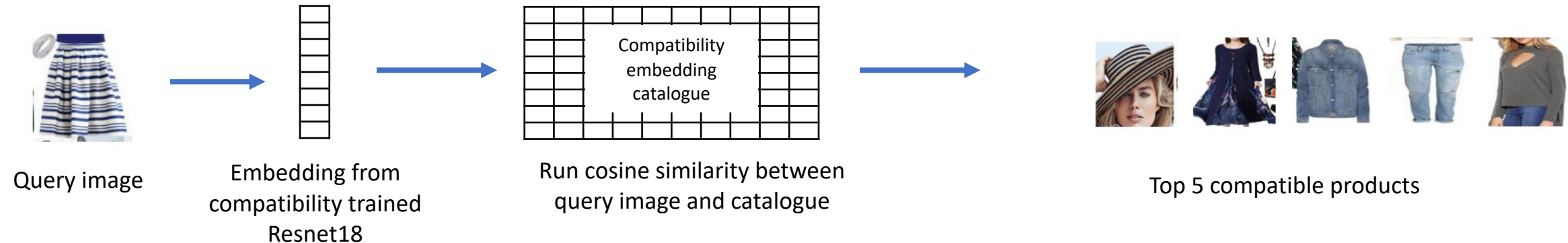


2 Model training using triple loss



Recommend Complementary Products - Methodology

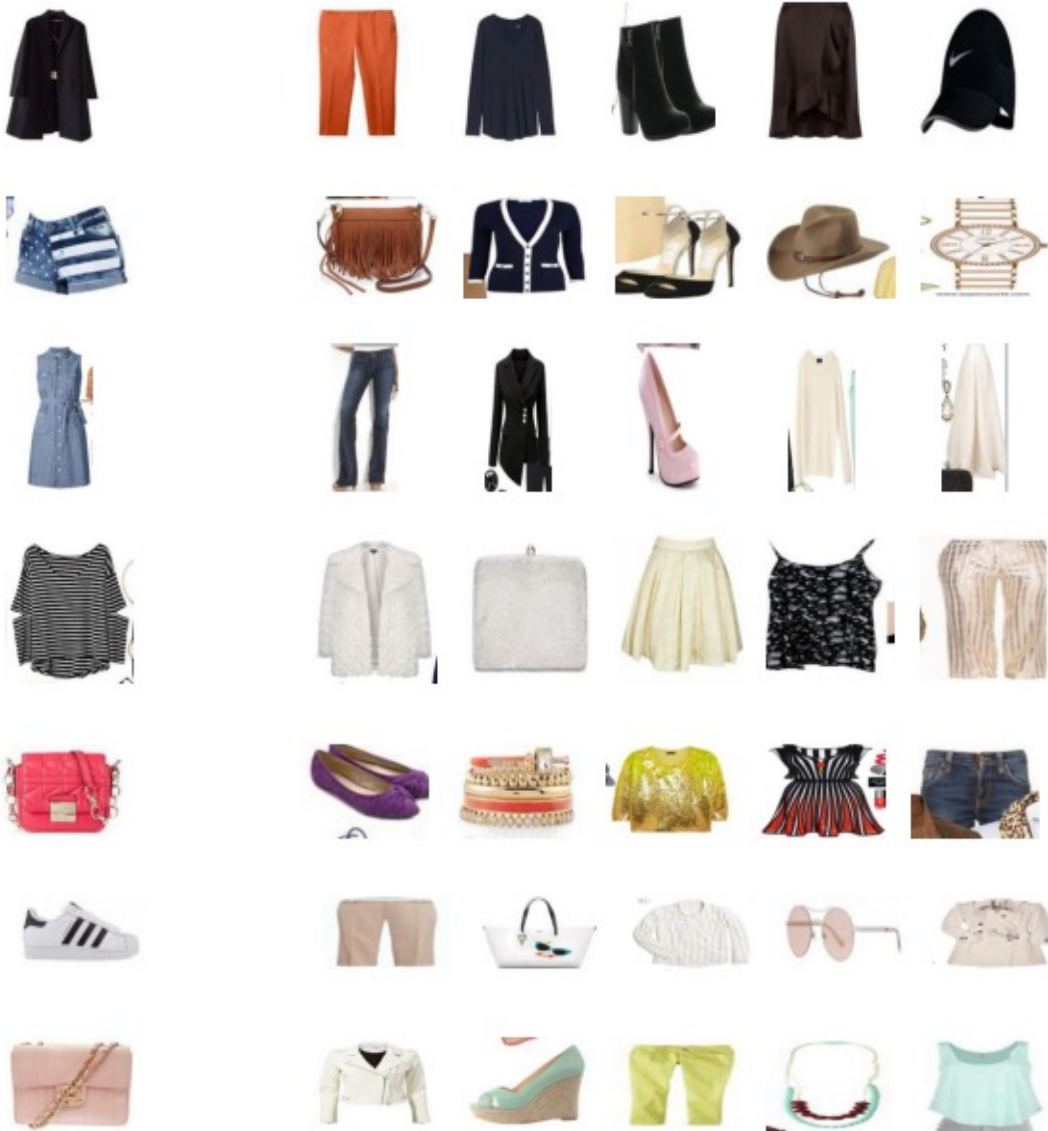
3 Match query image embedding with the database to get top 5 compatible images



Recommend Complementary Products - Results

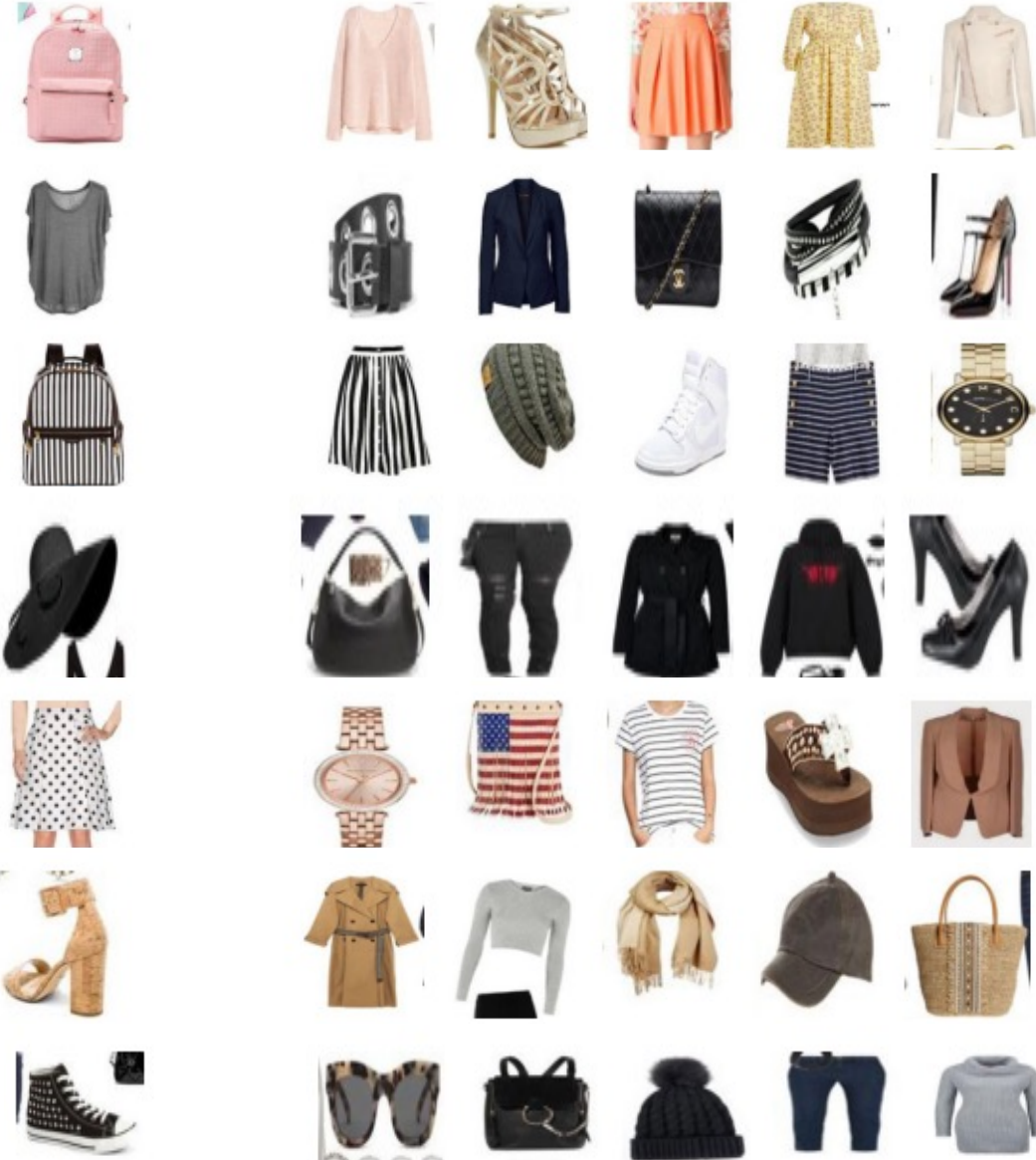
Query image

Top 5 complementary images



Query image

Top 5 complementary images



Recommend Complementary Products - Results

Query image

Top 5 complementary images

