



HACK THE DESIGNER LOOK

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MSGM: \$545

ASOS: \$43

WORKFLOW

designer product



high price tag



searching across retailers



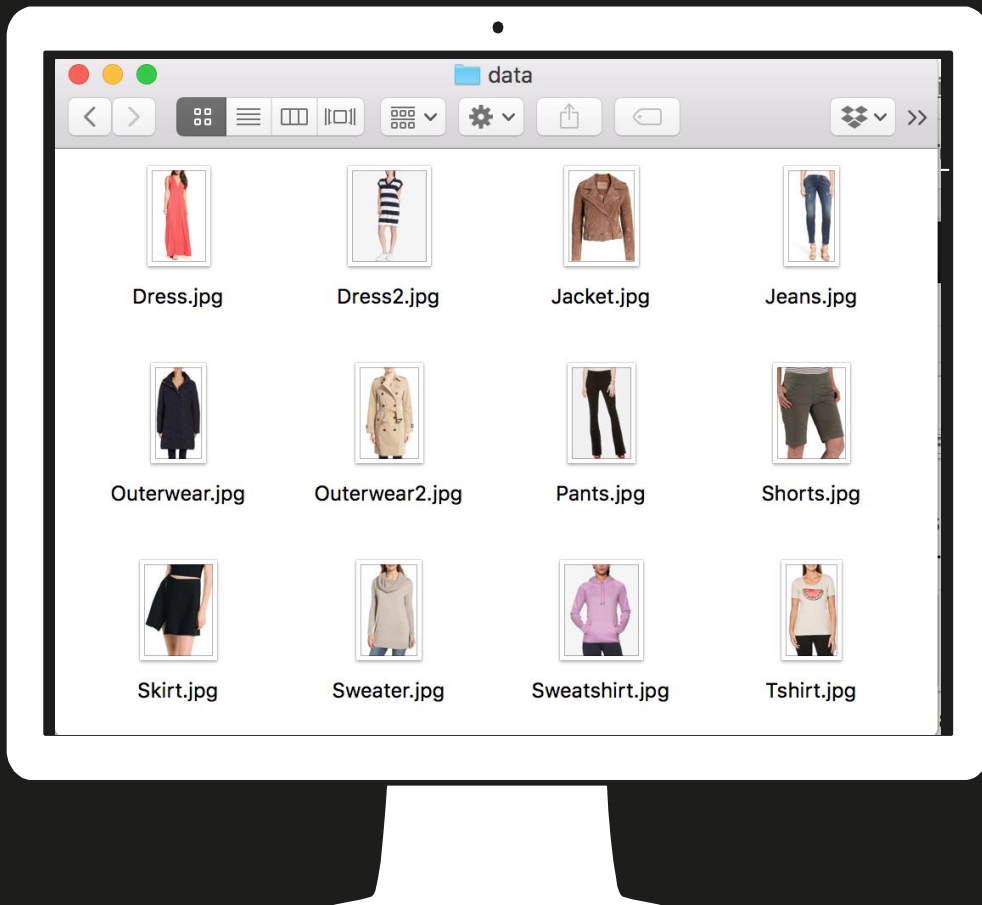
lowest prices



place order



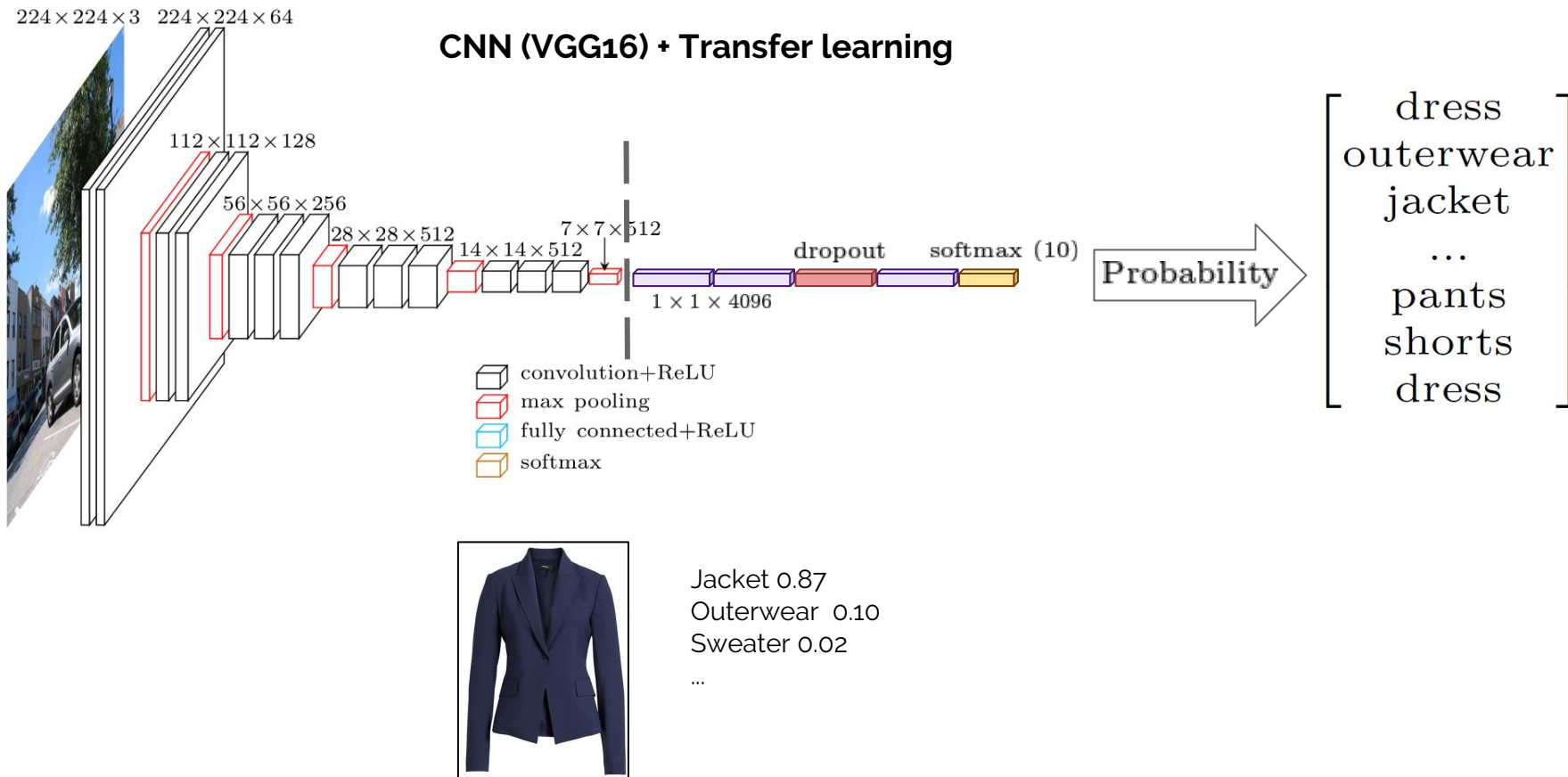
DATA



- **10 clothing categories**
- **~6000 RGB images each category**
- **Clean background**
- **Product price <\$100**

MODEL




CNN (VGG16) + Transfer learning



RECOMMENDATION



feature
extract

Images	1	2	...	4096
	1.23	2.34	...	-0.58
	-1.12	0.86	...	0.47
	1.03	2.15	...	-0.23

Cosine
similarity

Best
matches



Too expensive; don't buy

**'Crazy Rich Asians' costumes
were so expensive, they required
security**



- null
- bag
- blouse
- cape
- hair
- loafers
- skin
- skirt
- stockings



- null
- bag
- boots
- coat
- hair
- skin
- skirt
- stockings
- sweater



- null
- bag
- blouse
- dress
- hair
- shoes
- skin



- null
- coat
- hair
- pants
- sandals
- skin
- t-shirt
- wallet

FUTURE WORKS

- Image segmentation
- More product categories
- Bigger and real-time product inventory
- Deploy Flask app for production

TOOLS

Data Collection

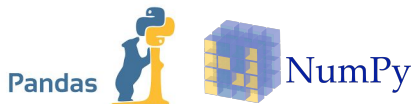
SHOPSTYLE
COLLECTIVE

Visualization



matplotlib

Data Manipulation



Computing Platform



Model





THANK YOU

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