

Product Recommender System (Reverse Image Search)

Pre-Requisites

CNN

↳ Transfer Learning →

RESNET

ImageNET (dataset)

we have (44k) image dataset
ek dum bhokal !!

RESNET → 2048 features

↳

(44k, 2048) features

Workflow

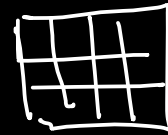
① Import Model (RESNET)

② Extract features (44k, 2048)

③ Export features

④ Make recommendations
(Nearest Neighbour)

44 k images



img (224, 224, 3)



feature extraction

RESNET



2048 features
(per image)

PRS

Final Thoughts

① Optimization → 44 k images X suppose 10 M images

② Deployment

→ AWS

S3 bucket

all 44 k images → 10 GB

↓
ANNOY
(spotify)

PRS

PRS

PRS

PRS