

Visual Product Recognition

Data Preparation and Training

products-10k" images are grouped by class labels, and samples from each class are collected for training. Classes with a sufficient number of samples are chosen.

Model Training

We utilized two versions of the pipeline

- ViT-B-32-quickgelu , ViT-H-14
- Loss Function : ArcFace with Adaptive margin
- **Optimizer**: AdamW + CosineScheduler with a warmup

Model Validation

 Calculated the mAP (mean Average Precision) score as an accuracy metric for the retrieval process.

• ViT-H-14 : 0.62

ViT-B-32: 0.32

