

Contrastive Loss

Learning Similarity Metrics in Embedding Space

Core Concept

Learns meaningful representations in embedding space by training on sample pairs (similar/dissimilar)

Training Approach

Can learn meaningful representations without explicit labels



Similar Pairs

Place similar samples close together in embedding space

Minimize Distance



Dissimilar Pairs

Place dissimilar samples apart by a margin

Maintain Margin

Applications

- 1 Face Recognition
- 2 Signature Verification
- 3 Image Retrieval

 Foundation for Siamese Networks