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TRUY VẤN HÌNH ẢNH

# GIỚI THIỆU

Trong thời kì công nghệ phát triển, ngoài việc nghe gọi, điện thoại còn có thể trở thành một chiếc máy ảnh bỏ túi. Việc check-in tại các địa điểm nổi tiếng cũng trở nên dễ dàng hơn rất nhiều. Thông qua việc các bức ảnh này được đăng tải trên mạng xã hội, bạn bè có thể tìm kiếm thông tin về các địa điểm ấy thông qua các hệ thống tìm kiếm ảnh. Công cụ tìm kiếm ảnh phổ biến nhất hiện nay là Google Image Search. Vận dụng các kiến thức đã học trong môn CS336 kết hợp với ngôn ngữ Python, nhóm em thử giải quyết việc tìm kiếm ảnh dựa trên vùng ảnh xác định bởi người dùng.

# CÁC NGHIÊN CỨU TRƯỚC ĐÓ

Trước khi bắt tay vào làm đề tài, nhóm tìm hiểu các phương pháp về Content-based Image Retrieval, kết quả như bảng sau:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Method | Backbone DCNN | Training set | Output Layer | Embed. Aggre. | Loss Function | Feat. Dim | Holidays | UKB | Oxford5k (+100k) | Paris6k (+100k) |
| Neural codes | AlexNet | Landmarks [39] | FC6 | PCA | CE Loss | 128 | 78.9 | 3.29 (N-S) | 55.7 (52.3) | - |
| Nonmetric | VGG16 | Landmarks | Conv5 | PCA | Regression Loss | 512 | - | - | 88.2 (82.1) | 88.2 (82.9) |
| SIAM-FV | VGG16 | Landmarks | Conv5 | FV + PCAW | Siamese Loss | 512 | - | - | 81.5 (76.6) | 82.4 (-) |
| Faster R-CNN | VGG16 | Oxford5k Paris6k | Conv5 | MP / SP | Regression Loss | 512 | - | - | 75.1 (-) | 80.7 (-) |
| SIFT-CNN | VGG16 | Holidays UKB | Conv5 | SP | Siamese Loss | 512 | 88.4 | 3.91 (N-S) | - | - |
| Quartet-Net | VGG16 | GeoPair [129] | FC6 | PCA | Siamese Loss | 128 | 71.2 | 87.5 (mAP) | 48.5 (-) | 48.8 (-) |
| NetVLAD | VGG16 | Tokyo Time Machine | VLAD Layer | PCAw | Triplet Loss | 256 | 79.9 | - | 62.5 (-) | 72.0 (-) |
| Deep Retrieval | ResNet-101 | Landmarks | Conv5 Block | MP + PCAw | Triplet Loss | 2048 | 90.3 | - | 86.1 (82.8) | 94.5 (90.6) |
| DELF | ResNet-101 | GLDv1 | Conv4 Block | Attention + PCA | CE Loss | 2048 | - | - | 83.8 (82.6) | 85.0 (81.7) |
| MoM | VGG16 | Flickr 7M | Conv5 | MP + PCA | Siamese Loss | 64 | 87.5 | - | 78.2 (72.6) | 85.1 (78.0) |
| GeM | VGG16 | Flickr 7M | Conv5 | GeM Pooling | Siamese Loss | 512 | 83.1 | - | 82.0 (76.9) | 79.7 (72.6) |
| SfM-CNN | VGG16 | Flickr 7M | Conv5 | PCA | Siamese Loss | 512 | 82.5 | - | 77.0 (69.2) | 83.8 (76.4) |
| MDP-CNN | ResNet-101 | Landmarks | Conv5 Block | SP | Triplet Loss | 2048 | - | - | 85.4 (85.1) | 96.3 (94.7) |
| IME-CNN | ResNet-101 | Oxford105k Paris106k | IME Layer | MP | Regression Loss | 2048 | - | - | 92.0 (87.2) | 96.6 (93.3) |

|  |  |
| --- | --- |
| Method | Brief Conclusions and Highlights |
| Neural codes | Nghiên cứu đầu tiên là tinh chỉnh các mạng neural sâu cho IIR. |
| Nonmetric | Similarity learning trên các cặp giống và khác nhau được thực hiện bởi các mạng neuron, được tối ưu bằng regression loss |
| SIAM-FV | Fisher Vector được tích hợp trên VGG và được train đồng thời với VGG. |
| Faster R-CNN | RPN được tinh chỉnh, dựa trên các tọa độ bouding box và score của các class cho các vùng cụ thể trong truy vấn mà ta cần tìm |
| SIFT-CNN | Các đặc trưng SIFT được dùng như là các thông tin có giám sát cho việc khai thác các mẫu dương và mẫu âm |
| Quartet-Net | Quartet-net learning được nghiên cứu để cải thiện việc phân biệt đặc trưng khi double margin contrastive loss được sử dụng. |
| NetVLAD | VLAD được tích hợp tại lớp tích chập của mạng VGG16 như một lớp ghép. |
| Deep Retrieval | Dataset được làm sạch tự động. Các đặc trưng được mã hóa bằng R-MAC. Và RPN được dùng để trích xuất đặc trưng những vùng liên quan nhất |
| DELF | Ứng dụng FCN để trích xuất các đặc trưng cục bộ và xây dựng các đặc trưng kim tự tháp theo nhiều kích thước khác nhau |
| MoM | Nghiên cứu manifold learning để khai thác các mẫu giống và khác nhau. Các đặc trưng được thử nghiệm trên toàn cục và cục bộ. |
| GeM | Tinh chỉnh các CNN trên tập dữ liệu không có thứ tự. Các mẫu được tách ra từ một hệ thống tái tạo 3D tự động. |
| SfM-CNN | Sử dụng Structure-from-Motion để chọn lọc những mẫu dương và âm từ các ảnh chưa sắp xếp |
| MDP-CNN | Nghiên cứu cấu trúc đặc trưng toàn cục bằng cách tạo mô hình manifold learning để chọn các cặp positve và negative |
| IME-CNN | Graph-based manifold learning is explored to mine the match- ing and non-matching pairs in unordered datasets.  manifold learning dựa trên đồ thị là phương pháp được dùng để khai thác những cặp trùng khớp và không trùng khớp trong một bộ dữ liệu chưa được sắp xếp |

Sau khi tìm hiểu các phương pháp trên, nhóm thảo luận và chọn ra các phương pháp phù hợp để tiến hành cài đặt và sử dụng.

# ĐÁNH CHỈ MỤC

Các phương pháp đánh chỉ mục sẽ được thực hiện bằng thư viện faiss (Facebook AI Similarity Search) [5]. Faiss là thư viện được nghiên cứu và phát triển bởi đội ngũ Facebook AI Research.

Faiss cung cấp nhiều thuật toán cho việc tìm kiếm (similarity search) cũng như là gom cụm vector (clustering), một số thuật toán còn có thể cài đặt để sử dụng trên GPU.

## Flat Euclidean Distance

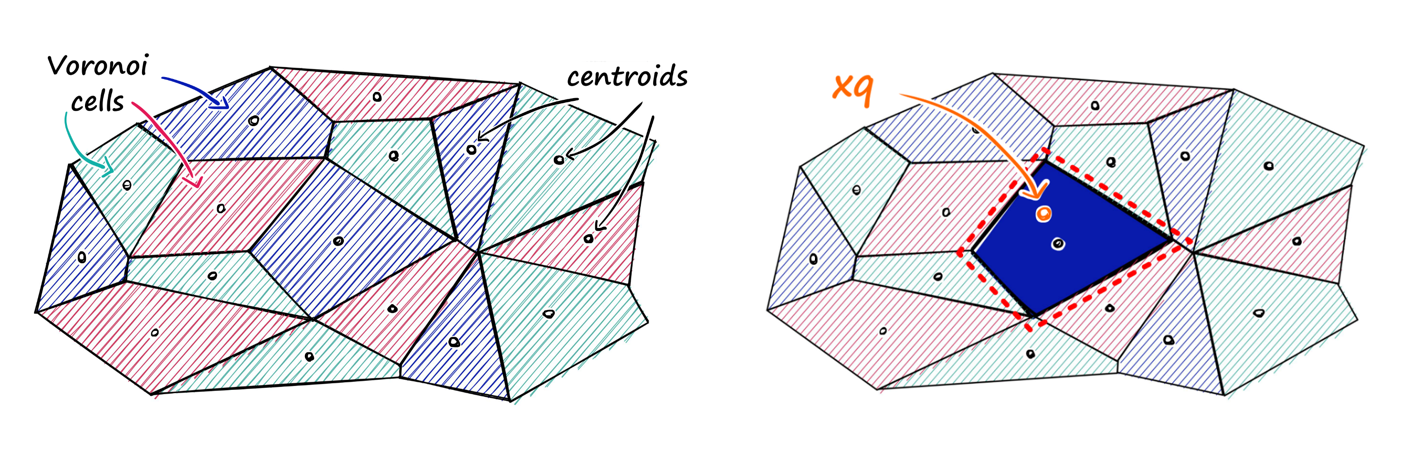
Với FlatL2, độ tương đồng giữa các vector sẽ được tính dựa trên công thức euclidean distance. Flat có nghĩa là khi vector được đánh chỉ mục, sẽ không có bất kì biến đổi nào lên vector.

Với mỗi vector cần truy xuất - xq, ta sẽ phải tính Euclidean distance (L2) giữa vector đó với tất các vector trong chỉ mục. Việc tính toán L2 rất tốn kém và tốn bộ nhớ khi lưu trữ, đặc biệt đối với với một bộ dữ liệu lớn.

## Inverted File Index

Thay vì phải tính L2 với tất với các vector trong bộ dữ liệu, thì Inverted File Index (IVF) thu nhỏ phạm vi lại trong một vùng chứa một số vector nhất định thông qua một thuật toán gom cụm. IVF định nghĩa một cụm là một Voronoi Cell, mỗi cell sẽ có một centroid tương ứng.

Khi bắt đầu tính toán, vector truy xuất - xq tính khoảng cách với các centroid trước, qua đó xác định xem xq thuộc cell nào. Sau đó tính khoảng cách giữa xq với các vector trong cell mà xq thuộc về.



Hình 1. Ví dụ về Voronoi cells [1]

Với việc chỉ tìm kiếm trong một không gian nhất định nên chi phí tính toán khi sử dụng IVF cũng giảm đi đáng kể.

## Locality Sensitive Hashing

Locality Sensitive Hashing (LSH) là một phương pháp thực hiện băm các vector ra vào các buckets khác nhau. LSH khởi tạo ngẫu nhiên các hyperplane (siêu mặt phẳng nhất định) để thực hiện băm vector đầu vào. Mỗi vector đầu vào sẽ tính tích vô hướng với các hyperplane như sau:

Với r là các hyperplane, đầu ra là một binary vector với số chiều là số hyperplane được khởi tạo.

**Chart

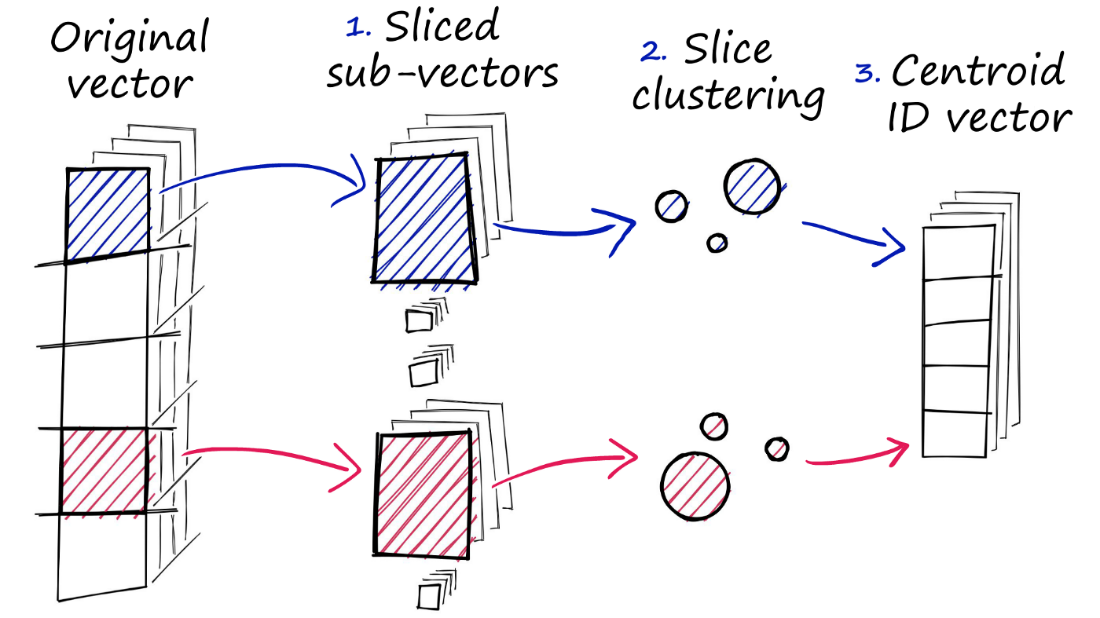
Description automatically generated**

Hình 2. Ví dụ là LSH [2]

Với vector cần truy xuất – xq cũng được cho qua hàm băm để thu được một binary vector ròi tính toán Hamming distance với các vector có trong chỉ mục.

## Product Quantization

Product quantization (PQ) sẽ chia nhỏ các vector đầu vào thành các subvector nhỏ hơn, với mỗi một cụm các subvector, thực hiện gom cụm và gán cho các subvector này một ID ứng với centroid nó thuộc về. Cuối cùng thu được các vector mới giá trị là các ID centroids.



Hình 3. Ví dụ cách hoạt động của product quantization [1]

Có thể thấy, trong khi IVF thu nhỏ phạm vi tìm kiếm, thông qua PQ các vector được xấp xỉ nhỏ lại, từ đó giảm được chi phí tính toán, cũng như bộ nhớ lưu trữ.

# CÁC PHƯƠNG PHÁP TRÍCH XUẤT ĐẶC TRƯNG

## Simple Image Retrieval

### Bag of visual words

Bag of Words (BoW) phương pháp ban đầu sẽ chứa từ vựng của tất cả mẫu trong một bộ dữ liệu văn bản, từ đó tính tần suất của mỗi từ trong văn bản và tổng hợp lại thành một vector đặc trưng.

Bag of Visual Words (BoVW) cũng tương tự như thế, để biểu diễn một hình ảnh bằng mô hình BoVW, một hình ảnh có thể được coi là một văn bản. Mỗi "từ" trong ảnh có thể được định nghĩa bằng nhiều cách khác nhau. Nhóm sẽ sử dụng phương phương pháp trích xuất đặc trưng SIFT [6] để trích xuất đặc trưng, từ đó dùng thuật toán gom nhóm để gom lại tạo thành một BoVW.

**Diagram

Description automatically generated**

Hình 4. Cách thực hiện Bag of visual word

### Histogram of Oriented Gradients

Histogram of Oriented Gradient (HOG) là một phương pháp trích xuất đặc trưng (feature descriptor). Feature descriptor là trừu tượng hóa đối tượng bằng cách trích xuất ra những đặc trưng của đối tượng đó và bỏ đi những thông tin không hữu ích

HOG sử dụng thông tin về độ lớn gradient (gradient magnitute) và phương của gradient (gradient orientation) để mô tả các đối tượng cục bộ trong ảnh.

### VGG16

Nhóm sử dụng mô hình pretrained VGG16 để trích xuất đặc trưng của ảnh, mô hình sẽ được loại bỏ các lớp fully-connected và giữ lại phần trích xuất đặc trưng

**Diagram

Description automatically generated**Hình 5. Mô hình VGG16 để trích xuất đặc trưng (nguồn: internet)

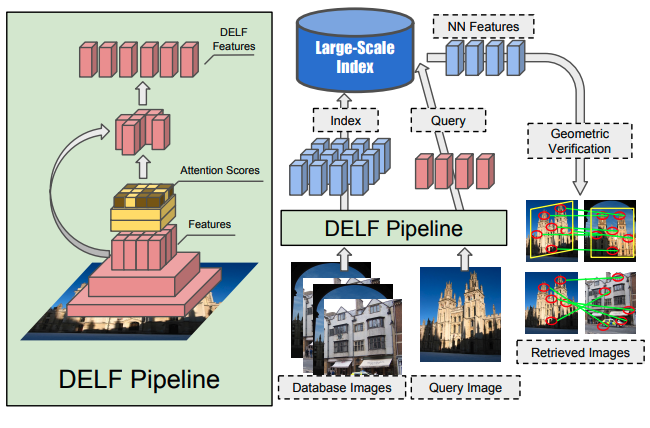
## DELF

DELF (DEep Local Features)[13] là một mô hình học sâu được sử dụng trong bài toán image retrieval. Mô hình này được phát triển bởi các nhà nghiên cứu của Google Brain vào năm 2017.

DELF sử dụng một kiến trúc mạng nơ-ron tích chập (CNN) để trích xuất các đặc trưng cục bộ của hình ảnh. Điểm mạnh của DELF là khả năng trích xuất các đặc trưng cục bộ độc lập với kích thước và hình dạng của vật thể trong hình ảnh, từ đó giúp tăng độ chính xác trong việc tìm kiếm hình ảnh.

Khi áp dụng DELF trong bài toán image retrieval, mô hình sẽ tạo ra một tập hợp các vector đặc trưng để biểu diễn cho mỗi hình ảnh. Sau đó, ta có thể sử dụng các phương pháp như tìm kiếm gần nhất (nearest neighbor) để tìm kiếm các hình ảnh có đặc trưng tương đồng nhất.

DELF được sử dụng rộng rãi trong các ứng dụng như tìm kiếm hình ảnh, phân loại hình ảnh, gắn thẻ hình ảnh và giúp tăng độ chính xác trong các ứng dụng liên quan đến hình ảnh.



Hình 6. Kiến trúc thuật toán DELF

Nhóm dùng model DELF từ nguồn <https://tfhub.dev/google/delf/1>. Sau đó tiến hành trích xuất Descriptor (DELF Features) cho toàn bộ ảnh trong database. Mỗi ảnh giữ lại top 65 Descriptor có số điểm Attention Scores cao nhất để dùng cho việc so sánh, tìm kiếm.

## SIAMESE NETWORK

### Siamese Network và Contrastive learning

Siamese Neural Network (SNN) là một kiến trúc mạng nơ-ron chứa hai hoặc nhiều mạng con giống nhau*.* Các mạng con cócùng kiến trúc và trọng số, việc cập nhật trọng số sẽ được thực hiện đồng thời trên các mạng con.

Contrastive learning là **tìm ra các cặp đặc trưng của dữ liệu có tính tương đồng - tương phản nhau trong bộ dữ liệu. Từ đó, với những cặp tương đồng ta có thể "kéo" chúng lại gần để học được những đặc trưng cấp cao hơn của nhau, và ngược lại với những cặp tương phản sẽ bị "đẩy" ra xa.**

### GeM Pooling và Contrastive loss

Generalized Mean pooling (GeM pooling) là một lớp pooling, GeM lần đầu tiên được giới thiệu tại bài nghiên cứu Fine-tuning CNN Image Retrieval with No Human Annotation [7], tương tự như Max pooling hay Average pooling giữ vai trò làm giảm kích thước mẫu và giữ lại những thông tin quan trọng.

Với p là tham số cố định hoặc có thể được học qua bộ dữ liệu

Contrastive loss là một hàm độ lỗi được sử dụng trong phương pháp contrastive learning, công thức contrastive loss như sau:

* f(A), f(B),là các feature vector
* là tham số không âm rất nhỏ

Diagram

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Hình 7. Siamese network với contrastive loss

![Graphical user interface, diagram

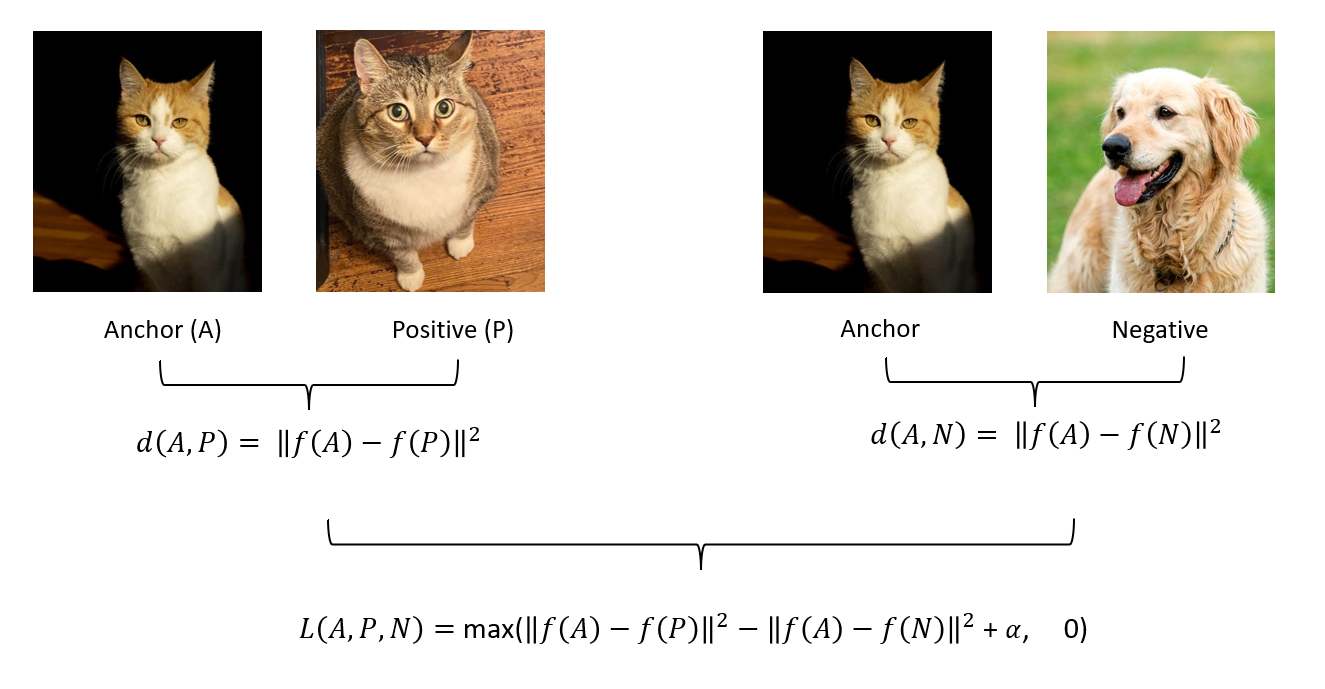
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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFtYW4gQXJvcmEAAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM4MQAAkpIAAgAAAAM4MQAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA//9k=)

Hình 8. Kiến trúc mô hình khi sử dụng GeM và Contrastive loss [7]

2 pretrained model được sử dụng là VGG16 và ResNet50 sẽ được sử dụng, 2 model không bao gồm các lớp fully-connected có sẵn và không tiếp tục training. Một lớp GeM pooling sẽ được thêm vào cuối 2 model và L2 Normalization cũng được bao gồm trong đó.

### Triplet loss

Triple Loss là một trường hợp đặc biệt của Contrastive loss, trong đó đầu vào là bộ gồm 3 thành phần: Anchor (A), Positive (P) và Nagative (N). Mục tiêu của hàm triplet loss function là **tối thiểu hóa khoảng cách giữa anchor và positive negative**và**tối đa hóa giữa anchor và positive**

****

Hình 9. Ví dụ về triplet loss

Như vậy hàm triplet loss function là:

* f(A), f(P), f(N) là các feature vector
* là tham số không âm rất nhỏ để tăng khoảng cách giữa d(A, P) và d(A, N)

Diagram

Description automatically generated

Hình 10. Siamese network với triplet loss

2 pretrained model được sử dụng là VGG16 và ResNet50 như khi sử dụng contrastive loss, 2 model không bao gồm các lớp fully-connected có sẵn và không tiếp tục training. Nhóm đã thêm 2 lớp full-connected mới với mỗi lớp 64 neuron để tiếp tục training.

# NHẬN XÉT VÀ ĐÁNH GIÁ

Các phương pháp truy xuất sẽ được đánh giá trên 2 tập dữ liệu: oxford5k [8] và GLR24k (bộ dữ liệu mà nhóm tự lọc ra từ GLR21 [9])



Hình 11. Ví dụ về ảnh và label trong tập Oxford5k

Timeline

Description automatically generated

Hình 12. Ví dụ về ảnh và label trong tập GLR24k

## Đánh giá phương pháp đánh chỉ mục

Bảng 1. Tổng hợp kết quả khi sử dụng các phương pháp đánh chỉ mục với deep feature vector VGG16 trên bộ dữ liệu GLR24k

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| method | Index | Memory (MB) | Speed (ms/it) | MAP@10 | MAP@50 | MAP@100 |
| VGG16 | FlatL2 | 2366.35 | 908 | 0.57 | 0.47 | 0.41 |
| LSH | 98.65 | 97 | 0.82 | 0.68 | 0.61 |
| IVF | 2371.33 | 117 | 0.67 | 0.57 | 0.53 |
| PQ | 27.52 | 94 | 0.71 | 0.59 | 0.53 |

Chỉ sử dụng FlatL2 thì việc tính toán rất tốn kém cũng như là không hoạt động tốt với các bộ dữ liệu lớn. Các phương khác không chỉ giúp tăng tốc độ truy xuất ảnh, mà còn tăng kết quả MAP và giảm bộ nhớ lưu trữ index. Trong đó, PQ và LSH cho kết quả tốt về MAP và cũng như giảm được bộ nhớ lưu trữ. IVF thì chỉ giảm được tốc độ truy xuất khi chia cụm để tìm kiếm.

## Đánh giá kết quả MAP

Bảng 2. Tổng hợp kết quả

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Feature Extractor | SIAM | index | GLR24k | | | Oxford5k | | |
| MAP@10 | MAP@50 | MAP@100 | MAP@10 | MAP@50 | MAP@100 |
| VGG16 | - | FlatL2 | 0.57 | 0.47 | 0.41 | 0.32 | 0.25 | 0.17 |
| - | LSH | 0.82 | 0.68 | 0.61 | 0.48 | 0.36 | 0.31 |
| - | IVF | 0.67 | 0.57 | 0.53 | 0.36 | 0.28 | 0.26 |
| - | PQ | 0.71 | 0.59 | 0.53 | 0.41 | 0.30 | 0.26 |
| triplet | FlatL2 | 0.81 | 0.78 | 0.77 | 0.30 | 0.23 | 0.21 |
| triplet | PQ | 0.81 | 0.78 | 0.77 | 0.18 | 0.16 | 0.15 |
| GeM + contrastive | FlatL2 | 0.90 | 0.79 | 0.73 | 0.54 | 0.41 | 0.36 |
| GeM + contrastive | LSH | 0.88 | 0.76 | 0.70 | 0.52 | 0.40 | 0.34 |
| ResNet50 | triplet | FlatL2 | 0.86 | 0.83 | **0.82** | 0.41 | 0.34 | 0.32 |
| triplet | PQ | 0.86 | 0.83 | **0.82** | 0.40 | 0.34 | 0.32 |
| GeM + contrastive | FlatL2 | **0.93** | **0.84** | 0.78 | 0.58 | 0.43 | **0.37** |
| GeM + contrastive | PQ | 0.92 | 0.83 | 0.78 | **0.57** | **0.42** | **0.37** |
| GeM + contrastive | LSH | 0.91 | 0.81 | 0.75 | **0.57** | **0.42** | 0.36 |
| DELF | - | FlatL2 | 0.83 | 0.73 | 0.69 | 0.46 | 0.35 | 0.31 |
| - | IVF | 0.84 | 0.78 | 0.76 | 0.44 | 0.35 | 0..34 |
| HOG | - | FlatL2 | 0.36 | 0.28 | 0.24 | 0.33 | 0.26 | 0.23 |
| BOVW | - | FlatL2 | 0.43 | 0.32 | 0.27 | 0.35 | 0.27 | 0.24 |

Đối với bộ dữ liệu GLR24k , các phương pháp trích xuất đặc trưng cơ bản như HOG, BOVW hay deep feature vector VGG16 không cho kết quả quá tốt. Nhưng thông qua việc đánh chỉ mục, có thể cải thiện thêm về kết quả.

Phương pháp contrastive learning cho kết quả khá tốt ở các mức MAP khác nhau. Trong đó, khi sử dụng triplet loss, kết quả MAP ổn định hơn ở các mức MAP. Mặc khác, khi sử GeM và contrastive loss thì MAP@10 là cao nhất, nhưng ở các mức MAP cao hơn làm giảm mạnh khi so với sử dụng triplet loss.

Đối với bộ dữ liệu Oxford5k , kết quả cho ra không qua tốt khi với vói GLR24. Trong đó phương pháp GeM + contrastive cho kết quả tốt nhất

# Xây dựng website demo

Website demo sẽ được build bằng streamlit [10] – một thư viện python hỗ trợ cho việc xây dựng web app một cách nhanh chóng và hiệu quả. Google colab sẽ được sử dụng như một server để xử lí và trả về các kết quả phù hợp hiển thị lên website. Ngoài ra nhóm sử dụng thêm một package là streamlit-cropper [11] để phục vụ cho việc crop ảnh. Cách sử dụng website như sau:

**Bước 1:** Tạo shortcut folder sau vào Drive (folder chứa source code và cái file index, database) <https://drive.google.com/drive/folders/1sP7o5daSlx1NytWv52YdywaY_FFLXlui?usp=sharing>

**Bước 2:** Mở Notebook “Streamlit.ipynb” bằng Google Colab.

**Bước 3:** Mount Drive và thay đổi đường dẫn tới folder vừa tạo shortcut

Graphical user interface, website

Description automatically generated

**Bước 4:** Làm theo các hướng dẫn trong Notebook.

A screenshot of a computer

Description automatically generated with medium confidenceGiao diện website như sau:

Người dùng sẽ tải ảnh lên, sau đó chọn vùng ảnh muốn truy vấn, chọn số kết quả trả về và chọn phương pháp trích xuất đặc trưng. Cuối cùng là bấm nút “search” và đợi kết quả trả về. Khi bấm nút “search”, ảnh sẽ được gửi tới server (Colab) để tiến hành trích xuất đặc trưng, sau đó tìm kiếm ra các có độ tương đồng cao nhất, rồi hiển thị ra top k ảnh. Giao diện kết quả trả về như sau:

Graphical user interface

Description automatically generated

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