

Image retrieval using deep features









```
In [78]: import turicreate
```

Load some CIFAR-10 images

```
In [79]: image_data = turicreate.SFrame('image_train_data/')
```

```
In [80]: image_data['image'].explore()
```

```
/usr/local/lib/python3.8/dist-packages/turicreate/visualization/_plot.py:461:  
UserWarning: Displaying only the first 100 rows.  
  warnings.warn("Displaying only the first {} rows.".format(maximum_rows))
```

SArray	
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SArray

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SArray

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SArray

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SArray

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SArray

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SArray

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SArray

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87



Compute deep features from our images

```
In [81]: #deep_learning_model = turicreate.load_model('imagenet_model_iter45')
#image_data['deep_features'] = deep_learning_model.extract_features(image_data)
```

```
In [82]: image_data
```

```
Out[82]:
```

id	image	label	deep_features	image_array
24	Height: 32 Width: 32	bird	[0.24287176132202148, 1.0954537391662598, 0.0, ...	[73.0, 77.0, 58.0, 71.0, 68.0, 50.0, 77.0, 69.0, ...
33	Height: 32 Width: 32	cat	[0.5250879526138306, 0.0, 0.0, 0.0, 0.0, ...	[7.0, 5.0, 8.0, 7.0, 5.0, 8.0, 5.0, 4.0, 6.0, 7.0, ...
36	Height: 32 Width: 32	cat	[0.5660159587860107, 0.0, 0.0, 0.0, 0.0, ...	[169.0, 122.0, 65.0, 131.0, 108.0, 75.0, ...
70	Height: 32 Width: 32	dog	[1.129795789718628, 0.0, 0.0, 0.7781944870948792, ...	[154.0, 179.0, 152.0, 159.0, 183.0, 157.0, ...
90	Height: 32 Width: 32	bird	[1.7178692817687988, 0.0, 0.0, 0.0, 0.0, ...	[216.0, 195.0, 180.0, 201.0, 178.0, 160.0, ...
97	Height: 32 Width: 32	automobile	[1.5781855583190918, 0.0, 0.0, 0.0, 0.0, ...	[33.0, 44.0, 27.0, 29.0, 44.0, 31.0, 32.0, 45.0, ...
107	Height: 32 Width: 32	dog	[0.0, 0.0, 0.22067785263061523, ...	[97.0, 51.0, 31.0, 104.0, 58.0, 38.0, 107.0, 61.0, ...
121	Height: 32 Width: 32	bird	[0.0, 0.23753464221954346, ...	[93.0, 96.0, 88.0, 102.0, 106.0, 97.0, 117.0, ...
136	Height: 32 Width: 32	automobile	[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 7.57378625869751, ...	[35.0, 59.0, 53.0, 36.0, 56.0, 56.0, 42.0, 62.0, ...
138	Height: 32 Width: 32	bird	[0.6589357256889343, 0.0, 0.0, 0.0, 0.0, ...	[205.0, 193.0, 195.0, 200.0, 187.0, 193.0, ...

[2005 rows x 5 columns]

Note: Only the head of the SFrame is printed.

You can use `print_rows(num_rows=m, num_columns=n)` to print more rows and columns.

Create a nearest neighbors model to retrieve

images from deep features

```
In [83]: knn_model = turicreate.nearest_neighbors.create(image_data,
                                                         features = ['deep_features'],
                                                         label = 'id')
```

Starting brute force nearest neighbors model training.

Validating distance components.

Initializing model data.


Initializing distances.

Done.

Use image retrieval model with deep features to find similar images

```
In [84]: cat = image_data[18:19]
```

```
In [85]: cat['image'].explore()
```

SArray	
0	

```
In [86]: knn_model.query(cat)
```

Starting pairwise querying.

+	-----+	-----+	-----+	-----+				
	Query points		# Pairs		% Complete.		Elapsed Time	
+	-----+	-----+	-----+	-----+				
	0		1		0.0498753		52.32ms	
	Done				100		702.936ms	
+	-----+	-----+	-----+	-----+				

```
Out[86]:
```

query_label	reference_label	distance	rank
0	384	0.0	1
0	6910	36.94031379506751	2
0	39777	38.46348889747021	3
0	36870	39.75596231189652	4
0	41734	39.786601414815024	5

[5 rows x 4 columns]






```
In [87]: def get_images_from_ids(query_result):
         return image_data.filter_by(query_result['reference_label'], 'id')
```

```
In [88]: cat_neighbors = get_images_from_ids(knn_model.query(cat))
```

Starting pairwise querying.

```
+-----+-----+-----+-----+
| Query points | # Pairs | % Complete. | Elapsed Time |
+-----+-----+-----+-----+
| 0           | 1       | 0.0498753   | 86.4ms       |
| Done        |         | 100         | 961.3ms      |
+-----+-----+-----+-----+
```

```
In [89]: cat_neighbors['image'].explore()
```

SArray	
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Find images similar to a car

```
In [90]: car = image_data[8:9]
```

```
In [91]: car['image'].explore()
```

SArray

0



In [92]: `get_images_from_ids(knn_model.query(car))['image'].explore()`

Starting pairwise querying.

Query points	# Pairs	% Complete.	Elapsed Time
0	1	0.0498753	71.284ms
Done		100	736.769ms

SArray

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2



3



4



Create a lambda function to find and show nearest neighbors to an image

In [93]: `show_neighbors = lambda i: get_images_from_ids(knn_model.query(image_data[i:i`






In [94]: `show_neighbors(8)`

Starting pairwise querying.

Query points	# Pairs	% Complete.	Elapsed Time
--------------	---------	-------------	--------------

0	1	0.0498753	151.406ms	
Done		100	974.56ms	

SArray



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1	
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In [95]: `show_neighbors(26)`

Starting pairwise querying.

Query points	# Pairs	% Complete.	Elapsed Time	
0	1	0.0498753	59.465ms	
Done		100	959.726ms	

SArray

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1	

SArray

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In [96]: `show_neighbors(500)`

Starting pairwise querying.

Query points	# Pairs	% Complete.	Elapsed Time
0	1	0.0498753	53.225ms
Done		100	646.137ms

SArray

0



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Assignemnt quesions

In [97]: `sketch = turicreate.Sketch(image_data['label'])`

```
In [98]: image_data['label'].summary()
```

```
Out[98]: +-----+-----+
| item | value | is exact |
+-----+-----+
| Length | 2005 | Yes |
| # Missing Values | 0 | Yes |
| # unique values | 4 | No |
+-----+-----+
```

Most frequent items:

```
+-----+-----+
| value | count |
+-----+-----+
| cat | 509 |
| dog | 509 |
| automobile | 509 |
| bird | 478 |
+-----+-----+
```

Deep Learning Retrieval for each category

Split the training data into 4 different SFrame data structures.

```
In [99]: image_data
```

```
Out[99]:
```

	id	image	label	deep_features	image_array
	24	Height: 32 Width: 32	bird	[0.24287176132202148, 1.0954537391662598, 0.0, ...	[73.0, 77.0, 58.0, 71.0, 68.0, 50.0, 77.0, 69.0, ...
	33	Height: 32 Width: 32	cat	[0.5250879526138306, 0.0, 0.0, 0.0, 0.0, ...	[7.0, 5.0, 8.0, 7.0, 5.0, 8.0, 5.0, 4.0, 6.0, 7.0, ...
	36	Height: 32 Width: 32	cat	[0.5660159587860107, 0.0, 0.0, 0.0, 0.0, ...	[169.0, 122.0, 65.0, 131.0, 108.0, 75.0, ...
	70	Height: 32 Width: 32	dog	[1.129795789718628, 0.0, 0.0, 0.7781944870948792, ...	[154.0, 179.0, 152.0, 159.0, 183.0, 157.0, ...
	90	Height: 32 Width: 32	bird	[1.7178692817687988, 0.0, 0.0, 0.0, 0.0, ...	[216.0, 195.0, 180.0, 201.0, 178.0, 160.0, ...
	97	Height: 32 Width: 32	automobile	[1.5781855583190918, 0.0, 0.0, 0.0, 0.0, ...	[33.0, 44.0, 27.0, 29.0, 44.0, 31.0, 32.0, 45.0, ...
	107	Height: 32 Width: 32	dog	[0.0, 0.0, 0.22067785263061523, ...	[97.0, 51.0, 31.0, 104.0, 58.0, 38.0, 107.0, 61.0, ...
	121	Height: 32 Width: 32	bird	[0.0, 0.23753464221954346, ...	[93.0, 96.0, 88.0, 102.0, 106.0, 97.0, 117.0, ...
	136	Height: 32 Width: 32	automobile	[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 7.57378625869751, ...	[35.0, 59.0, 53.0, 36.0, 56.0, 56.0, 42.0, 62.0, ...
	138	Height: 32 Width: 32	bird	[0.6589357256889343, 0.0, 0.0, 0.0, 0.0, ...	[205.0, 193.0, 195.0, 200.0, 187.0, 193.0, ...

[2005 rows x 5 columns]

Note: Only the head of the SFrame is printed.

You can use `print_rows(num_rows=m, num_columns=n)` to print more rows and columns.

```
In [100_ cat_ds = image_data[image_data['label'] == 'cat']
```

```
In [101_ cat_ds
```

```
Out[101_
```

id	image	label	deep_features	image_array
33	Height: 32 Width: 32	cat	[0.5250879526138306, 0.0, 0.0, 0.0, 0.0, 0.0, ...	[7.0, 5.0, 8.0, 7.0, 5.0, 8.0, 5.0, 4.0, 6.0, 7.0, ...
36	Height: 32 Width: 32	cat	[0.5660159587860107, 0.0, 0.0, 0.0, 0.0, 0.0, ...	[169.0, 122.0, 65.0, 131.0, 108.0, 75.0, ...
159	Height: 32 Width: 32	cat	[0.0, 0.0, 0.0, 0.6432753205299377, 0.0, ...	[154.0, 145.0, 135.0, 152.0, 144.0, 135.0, ...
331	Height: 32 Width: 32	cat	[0.0, 0.0, 0.5109639167785645, 0.0, ...	[45.0, 65.0, 92.0, 72.0, 95.0, 110.0, 106.0, ...
367	Height: 32 Width: 32	cat	[1.3865805864334106, 0.0, 0.0, 0.0, 0.0, ...	[168.0, 151.0, 143.0, 145.0, 130.0, 124.0, ...
384	Height: 32 Width: 32	cat	[1.0440353155136108, 0.0, 0.0, 0.0, 0.0, 0.0, ...	[46.0, 45.0, 50.0, 47.0, 45.0, 51.0, 45.0, 44.0, ...
494	Height: 32 Width: 32	cat	[0.0, 0.0539512038230896, 1.9574512243270874, 0.0, ...	[26.0, 34.0, 29.0, 24.0, 29.0, 25.0, 33.0, 43.0, ...
597	Height: 32 Width: 32	cat	[0.0, 0.0, 0.04706370830535889, ...	[133.0, 153.0, 138.0, 126.0, 146.0, 136.0, ...
788	Height: 32 Width: 32	cat	[0.5058419108390808, 0.0, 0.0, 0.0, ...	[184.0, 200.0, 197.0, 189.0, 203.0, 200.0, ...
882	Height: 32 Width: 32	cat	[0.0, 0.0, 0.15620028972625732, ...	[141.0, 133.0, 112.0, 143.0, 133.0, 113.0, ...

[509 rows x 5 columns]

Note: Only the head of the SFrame is printed.

You can use `print_rows(num_rows=m, num_columns=n)` to print more rows and columns.

```
In [102_ dog_ds = image_data[image_data['label'] == 'dog']
```

```
In [103_ dog_ds
```

```
Out[103_
```

id	image	label	deep_features	image_array
70	Height: 32 Width: 32	dog	[1.129795789718628, 0.0, 0.0, 0.7781944870948792, ...	[154.0, 179.0, 152.0, 159.0, 183.0, 157.0, ...
107	Height: 32 Width: 32	dog	[0.0, 0.0, 0.22067785263061523, ...	[97.0, 51.0, 31.0, 104.0, 58.0, 38.0, 107.0, 61.0, ...
177	Height: 32 Width: 32	dog	[0.0, 1.4596567153930664, 0.0, 0.4229923486709595, ...	[55.0, 75.0, 42.0, 51.0, 76.0, 37.0, 57.0, 83.0, ...
424	Height: 32 Width: 32	dog	[0.9423996806144714, 0.0, 0.22035276889801025, ...	[60.0, 35.0, 18.0, 63.0, 49.0, 38.0, 66.0, 56.0, ...

462	Height: 32 Width: 32	dog	[1.4346256256103516, 0.0, 0.0, 0.0, 0.0, 0.0, ...	[86.0, 69.0, 75.0, 57.0, 41.0, 48.0, 46.0, 35.0, ...
542	Height: 32 Width: 32	dog	[0.4515470862388611, 0.0, 0.0, 0.0, 0.0, 0.0, ...	[196.0, 174.0, 113.0, 140.0, 117.0, 65.0, 8 ...
573	Height: 32 Width: 32	dog	[0.5923609733581543, 0.0, 0.0, 0.0, 0.0, 0.0, ...	[153.0, 103.0, 52.0, 151.0, 102.0, 49.0, ...
851	Height: 32 Width: 32	dog	[0.690123438835144, 0.0, 0.0, 0.0, ...	[39.0, 6.0, 4.0, 53.0, 23.0, 24.0, 57.0, 37.0, ...
919	Height: 32 Width: 32	dog	[0.0, 0.17755866050720215, ...	[29.0, 43.0, 4.0, 24.0, 35.0, 6.0, 24.0, 37.0, ...
1172	Height: 32 Width: 32	dog	[0.517601490020752, 0.0, 1.9641833305358887, 0.0, ...	[182.0, 180.0, 197.0, 196.0, 192.0, 209.0, ...

[509 rows x 5 columns]

Note: Only the head of the SFrame is printed.

You can use print_rows(num_rows=m, num_columns=n) to print more rows and columns.

In [104_ `bird_ds = image_data[image_data['label'] == 'bird']`

In [105_ `bird_ds`

Out[105_

id	image	label	deep_features	image_array
24	Height: 32 Width: 32	bird	[0.24287176132202148, 1.0954537391662598, 0.0, ...	[73.0, 77.0, 58.0, 71.0, 68.0, 50.0, 77.0, 69.0, ...
90	Height: 32 Width: 32	bird	[1.7178692817687988, 0.0, 0.0, 0.0, 0.0, 0.0, ...	[216.0, 195.0, 180.0, 201.0, 178.0, 160.0, ...
121	Height: 32 Width: 32	bird	[0.0, 0.23753464221954346, ...	[93.0, 96.0, 88.0, 102.0, 106.0, 97.0, 117.0, ...
138	Height: 32 Width: 32	bird	[0.6589357256889343, 0.0, 0.0, 0.0, 0.0, 0.0, ...	[205.0, 193.0, 195.0, 200.0, 187.0, 193.0, ...
335	Height: 32 Width: 32	bird	[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 8.50706672668457, ...	[160.0, 159.0, 154.0, 162.0, 161.0, 156.0, ...
560	Height: 32 Width: 32	bird	[1.6915949583053589, 0.0, 0.0, 0.0, 0.0, 0.0, ...	[147.0, 138.0, 88.0, 151.0, 142.0, 92.0, ...
649	Height: 32 Width: 32	bird	[0.5111562013626099, 0.3241650462150574, 0.0, ...	[65.0, 127.0, 9.0, 127.0, 160.0, 15.0, 159.0, ...
775	Height: 32 Width: 32	bird	[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 10.012731552124023, ...	[29.0, 41.0, 25.0, 29.0, 42.0, 25.0, 28.0, 41.0, ...
802	Height: 32 Width: 32	bird	[0.2771667242050171, 0.0, 0.0, 0.0, 0.0, 0.0, ...	[233.0, 230.0, 173.0, 222.0, 218.0, 168.0, ...
975	Height: 32 Width: 32	bird	[0.0, 0.03367185592651367, ...	[59.0, 180.0, 110.0, 88.0, 186.0, 117.0, ...

[478 rows x 5 columns]

Note: Only the head of the SFrame is printed.

You can use print_rows(num_rows=m, num_columns=n) to print more rows and columns.


```
In [106_ automobile_ds = image_data[image_data['label'] == 'automobile']
```

```
In [107_ automobile_ds
```

```
Out[107_
```

id	image	label	deep_features	image_array
97	Height: 32 Width: 32	automobile	[1.5781855583190918, 0.0, 0.0, 0.0, 0.0, ...	[33.0, 44.0, 27.0, 29.0, 44.0, 31.0, 32.0, 45.0, ...
136	Height: 32 Width: 32	automobile	[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 7.57378625869751, ...	[35.0, 59.0, 53.0, 36.0, 56.0, 56.0, 42.0, 62.0, ...
302	Height: 32 Width: 32	automobile	[0.5839380025863647, 0.0, 0.0, 0.0, 0.0, ...	[64.0, 52.0, 37.0, 85.0, 60.0, 40.0, 92.0, 66.0, ...
312	Height: 32 Width: 32	automobile	[0.0, 0.0, 0.0, 0.39282339811325073, ...	[124.0, 126.0, 113.0, 124.0, 126.0, 113.0, ...
323	Height: 32 Width: 32	automobile	[0.0, 0.0, 0.0, 4.423104286193848, ...	[241.0, 241.0, 241.0, 238.0, 238.0, 238.0, ...
536	Height: 32 Width: 32	automobile	[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 8.429039001464844, ...	[164.0, 154.0, 154.0, 128.0, 119.0, 120.0, ...
593	Height: 32 Width: 32	automobile	[1.6503394842147827, 0.0, 0.0, 0.0, 0.0, ...	[231.0, 222.0, 227.0, 232.0, 217.0, 221.0, ...
962	Height: 32 Width: 32	automobile	[0.0, 0.0, 0.0, 0.3955279588699341, 0.0, ...	[255.0, 255.0, 255.0, 255.0, 255.0, 255.0, ...
997	Height: 32 Width: 32	automobile	[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 8.04085636138916, ...	[145.0, 148.0, 157.0, 131.0, 134.0, 145.0, ...
1421	Height: 32 Width: 32	automobile	[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.35961294174194336, ...	[114.0, 95.0, 33.0, 118.0, 98.0, 26.0, 91.0, ...

[509 rows x 5 columns]

Note: Only the head of the SFrame is printed.

You can use `print_rows(num_rows=m, num_columns=n)` to print more rows and columns.

Creating the different nearest neighbours for each model

```
In [108_ #knn_model = turicreate.nearest_neighbors.create(image_data, features = ['deep
cat_ds_model = turicreate.nearest_neighbors.create(cat_ds, features=['deep_fe
```

Starting brute force nearest neighbors model training.

Validating distance components.

Initializing model data.

Initializing distances.

Done.

```
In [109_ dog_ds_model = turicreate.nearest_neighbors.create(dog_ds, features=['deep_f
```

Starting brute force nearest neighbors model training.

Validating distance components.

Initializing model data.

Initializing distances.

Done.

```
In [110]: bird_ds_model = turicreate.nearest_neighbors.create(bird_ds, features=['deep_
```

Starting brute force nearest neighbors model training.

Validating distance components.

Initializing model data.

Initializing distances.

Done.

```
In [111]: automobile_ds_model = turicreate.nearest_neighbors.create(automobile_ds, featu
```

Starting brute force nearest neighbors model training.

Validating distance components.

Initializing model data.

Initializing distances.

Done.


What is the nearest cat-labeled image in the training data to the cat image that is the first image in the test data ?


```
In [112]: image_test_data = turicreate.SFrame('image_test_data')
```


```
In [113]: image_test_data.explore()
```

/usr/local/lib/python3.8/dist-packages/turicreate/visualization/_plot.py:461:
UserWarning: Displaying only the first 100 rows.
warnings.warn("Displaying only the first {} rows.".format(maximum_rows))


	id	image	label	deep_features	image_arr
				[1.1346900463104248,	[158.0, 112
				0.0, 0.0, 0.0,	49.0, 159
				0.03664976358413696,	111.0, 47
				0.0, 9.353598594665527,	165.0, 116
				0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	51.0, 166
				0.0, 0.0,	118.0, 53
				1.3807746171951294,	160.0, 112
				0.19604480266571045,	46.0, 156
				0.49913910031318665,	109.0, 41
				0.0,	162.0, 115
				0.6409578919410706,	47.0, 159
				0.0,	113.0, 45
				0.7487727403640747,	158.0, 111
				0.0, 0.0, 0.0,	44.0, 159
				0.21078139543533325,	113.0, 41

	id	image	label	deep_features	image_arr	
					161.0, 116 41.0, 160 0.8158698081970215, 0.0, 0.0, 0.0, 0.0, 0.7258063554763794, 0.07810157537460327, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.5415886640548706, 0.0, 0.0, 1.3465909957885742, 0.0, 1.0266674757003784, 0.0, 0.0, 0.0, 0.18154239654541016, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.48050999641418457, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.960645318031311, 0.9239095449447632, 0.0, 2.424736261367798, 0.0, 0.0, 0.0, 0.0, 0.0, 3.5506184101104736, 0.0, 0.0, 1.3895796537399292, 0.0, 0.0, 0.0, 0.9751324653625488, 0.5319417715072632, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 1.3387210369110107, 0.6500557661056519, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, ...] 51.0, 151	
1	6		automobile	[0.2313588261604309, 0.0, 0.0, 0.0, 0.0, 0.2260231375694275, 8.859890937805176, 0.0, 0.0, 0.0, 1.306721568107605, 0.0, 1.3200275897979736, 0.0, 0.021779894828796387, 2.7885007858276367, 0.6055862903594971, 1.0541499853134155, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.16284668445587158, 0.0, 0.0,	[160.0, 37 13.0, 185 49.0, 11 209.0, 57 14.0, 217 58.0, 10 230.0, 66 9.0, 246 78.0, 10 249.0, 80 5.0, 246 81.0, 2 248.0, 86 3.0, 243 82.0, 3 230.0, 73	

id	image	label	deep_features	image_arr	
			0.5936859846115112, 0.0, 0.0, 0.0, 0.0, 0.0, 1.4003303050994873, 0.41531479358673096, 0.8316997289657593, 0.0, 0.6232343912124634, 0.0, 0.0, 0.0, 0.039073407649993896, 0.0, 1.7312166690826416, 0.0, 0.0, 0.24365288019180298, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.6719164848327637, 0.0, 0.0, 0.0, 0.10287576913833618, 0.0, 1.4050949811935425, 0.0, 0.0, 0.36831963062286377, 0.9943916201591492, 0.0, 0.9812753796577454, 0.0, 0.0, 3.3162624835968018, 0.0, 0.0, 0.0, 0.6410945653915405, 0.0, 0.0, 0.14705681800842285, 0.994686484336853, 1.3304005861282349, 0.0, 0.0, 0.1482129693031311, 0.0, 0.0, 0.0, 2.2524051666259766, 4.532947063446045, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, ...]	1.0, 221 66.0, 2 218.0, 65 4.0, 221 67.0, 6 216.0, 67 5.0, 195 56.0, 6 188.0, 50 1.0, 187 50.0, 6 184.0, 64 35.0, 180 115.0, 86 166.0, 52 22.0, 144 56.0, 23 121.0, 50 29.0, 135 39.0, 8 106.0, 22 13.0, 102 34.0, 27 102.0, 46 39.0, 75 36.0, 25 94.0, 25 19.0, 101 18.0, 8 91.0, 21 6.0, 94 19.0, 5 225.0, 67 13.0, 235	
2	8		cat	[0.0, 0.0, 0.034419238567352295, 0.0, 0.0, 0.0, 11.037464141845703, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 1.9923266172409058, 0.8362265229225159, 0.0, 0.0, 1.2143019437789917, 0.5834020972251892, 0.0,	[23.0, 15 23.0, 15 21.0, 28 21.0, 16 19.0, 65 47.0, 40 164.0, 131 113.0, 188 147.0, 115 183.0, 147 109.0, 178 142.0, 116


id	image	label	deep_features	image_arr
				170.0, 135
				113.0, 172
				137.0, 103
				186.0, 144
			1.8354237079620361,	106.0, 186
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	142.0, 105
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	184.0, 141
			0.0,	105.0, 183
			2.5544967651367188,	140.0, 105
			0.0, 0.0, 0.0,	182.0, 140
			0.6666379570960999,	105.0, 183
			0.0,	143.0, 107
			0.19379961490631104,	180.0, 140
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	106.0, 164
			0.0, 0.0, 0.0, 0.0,	126.0, 99
			0.9865121245384216,	127.0, 96
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	76.0, 92
			0.0, 0.0,	73.0, 58
			1.4116493463516235,	107.0, 95
			0.0,	84.0, 110
			0.9689892530441284,	93.0, 86
			0.0, 0.0, 0.0, 0.0, 0.0,	153.0, 130
			5.219803333282471, 0.0,	114.0, 194
			0.0,	164.0, 137
			0.6476315259933472,	195.0, 155
			0.0, 0.0, 0.0, 0.0,	124.0, 201
			0.15548175573349, 0.0,	156.0, 125
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	197.0, 155
			0.0, 0.0, 0.0,	124.0, 198
			3.3406102657318115,	157.0, 125
			0.2719850540161133,	201.0, 158
			0.9929672479629517,	127.0, 200
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	155.0, 125
			...]	199.0, 152
				122.0, 197
				151.0, 120
				23.0, 20
				24.0, 19.0,
			[0.0, 0.0, 0.0, 0.0, 0.0,	[217.0, 215
			0.0, 11.6065092086792,	209.0, 210
			0.0, 0.0, 0.0,	208.0, 202
			1.5437853336334229,	205.0, 208
			0.0,	191.0, 199
			0.9519292712211609,	202.0, 182
			0.0, 0.0,	218.0, 215
			2.6709866523742676,	209.0, 214
			1.7007484436035156,	209.0, 209
			0.0, 0.0,	207.0, 202
			0.8317678570747375,	198.0, 189
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	185.0, 175
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	187.0, 184
			0.5261033177375793,	171.0, 174
3	9		automobile	


id	image	label	deep_features	image_arr
				168.0, 165
				166.0, 152
				157.0, 169
				160.0, 160
				150.0, 157
				149.0, 154
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	167.0, 154
			0.557368278503418, 0.0,	140.0, 154
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	141.0, 143
			0.0,	157.0, 143
			0.38049525022506714,	167.0, 181
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	164.0, 191
			0.0,	203.0, 188
			1.3176181316375732,	219.0, 225
			0.0, 0.0, 0.0,	214.0, 223
			0.4909610152244568,	225.0, 219
			0.0, 0.0, 0.0, 0.0, 0.0,	219.0, 222
			0.8719406127929688,	209.0, 215
			0.0, 0.0, 0.0, 0.0, 0.0,	219.0, 202
			1.3088737726211548,	226.0, 229
			1.431756615638733, 0.0,	217.0, 225
			3.4467108249664307,	228.0, 214
			1.1720539331436157,	219.0, 221
			0.0, 0.0,	208.0, 190
			2.8044114112854004,	197.0, 177
			0.0, 0.0, 0.0, 0.0,	175.0, 184
			1.558576226234436, 0.0,	161.0, 187
			0.0, 0.0, 0.0, 0.0, 0.0,	196.0, 173
			2.5194320678710938,	200.0, 208
			0.6592507362365723,	183.0, 170
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	184.0, 157
			0.0, ...]	161.0, 176
				149.0, 162
				165.0, 149
				222.0, 226
				212.0, 221
			[0.3223174810409546,	[91.0, 64
			0.0,	30.0, 82
			1.2493335008621216,	58.0, 30
			0.0, 0.0, 0.0,	87.0, 73
			9.108221054077148, 0.0,	59.0, 89
			0.0, 0.0, 0.0, 0.0,	87.0, 83
			2.267735719680786, 0.0,	95.0, 92
			0.2844046950340271,	80.0, 98
			0.23577803373336792,	90.0, 71
			0.0,	97.0, 87
			0.7194756865501404,	68.0, 94
			0.0, 0.0, 0.0,	90.0, 75
			0.8485043048858643,	92.0, 93
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	84.0, 98
			0.0, 0.0, 0.0,	94.0, 85
4	12		dog	

id	image	label	deep_features	image_arr
				81.0, 76
				66.0, 28
			0.48348742723464966,	26.0, 19
			0.14677613973617554,	15.0, 15
			0.0, 0.0, 0.0, 0.0, 0.0,	10.0, 18
			1.3772846460342407,	19.0, 16
			1.5837881565093994,	19.0, 19
			0.0, 0.0,	20.0, 19
			0.42062896490097046,	19.0, 20
			1.1075553894042969,	16.0, 16
			0.38842594623565674,	17.0, 15
			0.0, 0.0, 0.0,	15.0, 16
			1.0785493850708008,	13.0, 15
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	13.0, 10
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	16.0, 8
			0.0, 0.0,	10.0, 14
			0.9691900610923767,	10.0, 13
			1.0344531536102295,	13.0, 12
			0.0, 2.090207815170288,	15.0, 14
			0.0, 0.0, 0.0, 0.0, 0.0,	8.0, 26
			0.9877524375915527,	24.0, 12
			0.0, 0.0,	29.0, 25
			0.9878638386726379,	15.0, 26
			0.0, 0.0, 0.0,	21.0, 12
			1.6905778646469116,	39.0, 34
			0.0, 0.0, 0.0, 0.0,	25.0, 25
			0.5074614882469177,	20.0, 11
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	18.0, 13
			3.7489962577819824,	6.0, 22
			0.8815674185752869,	13.0, 13
			0.1257283091545105,	22.0, 15
			0.31939470767974854,	13.0, 18
			0.0, 0.0, 0.0, 0.0, 0.0, ...]	13.0, 10
				94.0, 65
				34.0, 79.0,
			[0.0, 0.0,	[95.0, 76
			0.34735703468322754,	78.0, 92
			0.0, 0.0, 0.0,	77.0, 78
			9.986736297607422, 0.0,	89.0, 77
			0.0, 0.0, 0.0, 0.0,	77.0, 86
			0.08744889497756958,	75.0, 75
			1.194101333618164, 0.0,	89.0, 79
			0.0, 0.0,	78.0, 91
5	16		1.2451050281524658,	81.0, 78
			0.0,	94.0, 84
			0.45106470584869385,	84.0, 100
			0.0,	88.0, 95
			0.9952488541603088,	100.0, 87
			0.0, 0.0, 0.0, 0.0,	95.0, 103
			0.3162556290626526,	94.0, 95
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	141.0, 136
			0.0, 0.0, 0.0, 0.0, 0.0,	130.0, 185


id	image	label	deep_features	image_arr
				177.0, 166
				185.0, 167
			0.7789351940155029,	150.0, 185
			0.7703826427459717,	159.0, 147
			0.3312501311302185,	189.0, 176
			0.0,	175.0, 162
			0.8681038022041321,	162.0, 160
			0.2677925229072571,	126.0, 110
			1.1263498067855835,	107.0, 121
			0.3219832181930542,	101.0, 97
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	114.0, 97
			0.0,	92.0, 112
			0.5314939022064209,	99.0, 94
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	107.0, 97
			0.0, 0.0, 0.0, 0.0,	93.0, 45
			0.9480046033859253,	36.0, 43
			0.0,	10.0, 0
			2.8327531814575195,	16.0, 19
			0.0, 0.0, 0.0, 0.0, 0.0,	5.0, 24
			1.3116421699523926,	42.0, 17
			0.0, 0.0, 0.0, 0.0,	34.0, 50
			0.04313826560974121,	16.0, 30
			0.0, 0.369022011756897,	35.0, 6
			0.33449411392211914,	20.0, 24
			0.0, 0.0, 0.0, 0.0,	3.0, 16
			0.6627922058105469,	11.0, 0
			0.0, 0.0, 0.0, 0.0, 0.0,	12.0, 30
			2.0818703174591064,	28.0, 38
			0.01645737886428833,	175.0, 183
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	191.0, 225
			0.0, ...]	234.0, 240
				90.0, 71
				73.0, 86.0,
6	24	dog	[1.3155765533447266,	[136.0, 134
			0.0, 0.0, 0.0, 0.0, 0.0,	118.0, 142
			8.718120574951172, 0.0,	141.0, 126
			0.0, 0.0, 0.0, 0.0,	149.0, 150
			2.481417417526245, 0.0,	132.0, 163
			0.0,	163.0, 145
			0.12017691135406494,	151.0, 153
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	132.0, 143
			0.21553337574005127,	143.0, 121
			0.0, 0.0, 0.0,	150.0, 149
			2.8546080589294434,	133.0, 154
			0.0, 0.0, 0.0, 0.0,	155.0, 140
			0.8838543891906738,	165.0, 167
			0.0, 0.0, 0.0,	144.0, 189
			3.1067771911621094,	188.0, 178
			0.0, 0.0,	156.0, 149
			0.16263556480407715,	139.0, 123
			0.4977494478225708,	118.0, 100
			0.0, 0.0, 0.0, 0.0, 0.0,	177.0, 176




id	image	label	deep_features	image_arr
				159.0, 196
				197.0, 177
				195.0, 197
				177.0, 203
				203.0, 185
			0.8817697763442993,	188.0, 185
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	168.0, 155
			0.0, 0.0, 0.0, 0.0,	157.0, 136
			0.602243959903717, 0.0,	154.0, 154
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	139.0, 164
			0.0, 0.0, 0.0, 0.0, 0.0,	165.0, 150
			0.7312108278274536,	182.0, 181
			0.0, 0.0,	166.0, 188
			1.7334895133972168,	184.0, 170
			0.0, 0.0,	172.0, 173
			1.6957030296325684,	147.0, 164
			0.0,	165.0, 125
			0.16144156455993652,	173.0, 172
			0.0,	144.0, 164
			1.4485597610473633,	162.0, 133
			2.111600637435913, 0.0,	189.0, 185
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	161.0, 198
			0.0, 0.0, 0.0,	197.0, 165
			1.2080806493759155,	157.0, 160
			0.2537376284599304,	134.0, 165
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	170.0, 151
			0.0, ...]	148.0, 151
				124.0, 81
				87.0, 65
				141.0, 140
				126.0, 135
			[0.0,	[100.0, 103
			0.31728875637054443,	74.0, 68
			0.0,	91.0, 65
			1.3655288219451904,	116.0, 162
			0.5444698333740234,	109.0, 132
			0.0, 8.235291481018066,	181.0, 125
			0.0, 0.0, 0.0, 0.0, 0.0,	131.0, 175
			1.5740169286727905,	127.0, 135
			0.0,	176.0, 134
7	25		0.2554588317871094,	130.0, 181
		bird	0.47237205505371094,	123.0, 131
			0.5561997890472412,	190.0, 121
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	128.0, 190
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	120.0, 133
			0.0, 0.0,	194.0, 127
			3.1514902114868164,	129.0, 193
			0.10294508934020996,	114.0, 132
			0.0, 0.0,	192.0, 121
			2.584167242050171, 0.0,	132.0, 191
			0.0, 0.0, 0.0,	123.0, 130


id	image	label	deep_features	image_arr
8		dog		190.0, 124
				133.0, 195
				128.0, 125
			0.7261888980865479,	180.0, 113
			0.0, 0.0,	121.0, 159
			0.005167603492736816,	113.0, 122
			0.0,	152.0, 117
			0.4256519675254822,	131.0, 162
			0.0, 0.0, 0.0, 0.0, 0.0,	124.0, 137
			0.7833322286605835,	179.0, 133
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	119.0, 168
			3.06404447555542, 0.0,	115.0, 107
			0.0, 0.0, 0.0, 0.0, 0.0,	151.0, 105
			1.6100847721099854,	51.0, 69
			0.0, 0.0, 0.0,	65.0, 48
			3.118570327758789, 0.0,	59.0, 69
			0.0, 2.139697313308716,	104.0, 139
			0.0, 0.0,	108.0, 122
			4.496598720550537, 0.0,	168.0, 115
			0.0, 0.0,	108.0, 148
			0.09039300680160522,	103.0, 105
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	161.0, 94
			0.0,	112.0, 173
			0.7474154233932495,	93.0, 115
			0.0, 0.0, 0.0, 0.0,	174.0, 99
			0.7339800000190735,	117.0, 173
			0.9006426334381104,	106.0, 115
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	170.0, 108
			...]	96.0, 120
				79.0, 115
			[0.0, 0.0, 0.0, 0.0, 0.0,	[127.0, 130
			0.0, 9.260188102722168,	81.0, 130
			0.0, 0.0, 0.0,	133.0, 88
			0.36324232816696167,	135.0, 137
			0.0,	96.0, 132
			1.9162909984588623,	134.0, 96
			0.8849064707756042,	131.0, 132
			0.0,	93.0, 134
			0.9018382430076599,	135.0, 93
			0.0, 0.0,	137.0, 138
			0.1559252142906189,	96.0, 136
			1.2571187019348145,	137.0, 95
			0.0, 1.983087182044983,	132.0, 133
			0.0, 0.0,	92.0, 142
			0.2127913236618042,	143.0, 101
			0.0,	148.0, 149
			0.21236175298690796,	107.0, 140
			0.0, 0.0, 0.0, 0.0,	141.0, 100
			1.6371314525604248,	133.0, 134
			1.9821522235870361,	92.0, 129
			0.0, 0.0, 0.0, 0.0, 0.0,	130.0, 88





id	image	label	deep_features	image_arr
				52.0, 100
				86.0, 55
			0.0, 0.0,	113.0, 96
			0.9674851894378662,	57.0, 110
			0.0, 0.0,	94.0, 58
			1.8145904541015625,	92.0, 75
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	55.0, 57
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	47.0, 38
			0.0, 0.0,	89.0, 76
			0.6636756658554077,	55.0, 102
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	86.0, 55
			0.0, 0.0,	80.0, 65
			0.5536144971847534,	38.0, 92
			0.0, 0.0,	77.0, 55
			0.8048670291900635,	113.0, 106
			0.0, 0.0,	78.0, 145
			1.379748821258545, 0.0,	148.0, 111
			0.0, 0.0,	181.0, 182
			0.3641839027404785,	147.0, 198
			0.09943830966949463,	198.0, 163
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	192.0, 190
			0.0, 0.0, 0.0, 0.0,	154.0, 183
			1.8140537738800049,	181.0, 143
			0.0,	171.0, 165
			0.6398578882217407,	133.0, 157
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	154.0, 121
			...]	134.0, 133
				96.0, 133
			[0.7780773639678955,	[66.0, 73
			0.0, 0.0, 0.0, 0.0, 0.0,	84.0, 66
			9.263264656066895, 0.0,	71.0, 81
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	64.0, 67
			0.0, 0.0, 0.0, 0.0, 0.0,	75.0, 55
			1.102814793586731, 0.0,	60.0, 67
			0.4927195906639099,	62.0, 63
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	68.0, 48
			0.0, 0.0, 0.0,	47.0, 52
			1.3374018669128418,	46.0, 46
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	48.0, 46
			1.554940938949585,	43.0, 44
			0.48554521799087524,	34.0, 30
			0.0, 0.0,	29.0, 41
			1.352333903312683, 0.0,	36.0, 33
			0.11542636156082153,	29.0, 27
			0.0, 0.0, 0.0,	25.0, 17
			2.0925214290618896,	17.0, 16
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	13.0, 14
			0.0,	15.0, 13
			0.23234659433364868,	17.0, 20
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	20.0, 25
			0.0,	28.0, 35
10	35		bird	

id	image	label	deep_features	image_arr
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				35.0, 36
				43.0, 48
				48.0, 56
				59.0, 60
				67.0, 54
				54.0, 62
			0.0335843563079834,	51.0, 51
			0.0, 1.703763484954834,	59.0, 66
			0.0, 0.0, 0.0, 0.0, 0.0,	67.0, 72
			0.0010727643966674805,	86.0, 88
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	86.0, 91
			1.628221035003662,	92.0, 82
			1.3730888366699219,	92.0, 93
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	78.0, 94
			0.0, 0.0, 0.0, 0.0,	92.0, 79
			1.0611624717712402,	97.0, 92
			2.7852931022644043,	84.0, 102
			0.0,	95.0, 83
			0.2300175428390503,	102.0, 95
			0.0, 0.0, 0.0, 0.0, 0.0, ...]	79.0, 104
				97.0, 81
				104.0, 97
				81.0, 104
				97.0, 81
				51.0, 57
				67.0, 55.0,
			[0.0, 0.0, 0.0, 0.0, 0.0,	[255.0, 255
			0.0, 8.874865531921387,	255.0, 255
			0.0, 0.0, 0.0,	255.0, 255
			0.3171890377998352,	255.0, 255
			0.0, 0.0, 0.0, 0.0,	255.0, 250
			4.032886505126953,	250.0, 250
			2.1093826293945312,	250.0, 250
			0.4471602439880371,	250.0, 250
			0.12012696266174316,	250.0, 250
			1.5411782264709473,	249.0, 249
			0.0,	249.0, 244
			2.0338292121887207,	244.0, 244
			0.0,	243.0, 243
			1.4965463876724243,	243.0, 240
			1.4483091831207275,	240.0, 240
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	242.0, 242
			1.6730763912200928,	242.0, 245
			0.17573362588882446,	245.0, 245
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	242.0, 242
			0.3830428123474121,	242.0, 236
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	236.0, 236
			0.0, 0.0, 0.0, 0.0, 0.0,	234.0, 234
			0.755151093006134, 0.0,	234.0, 235
			0.0,	235.0, 235
			1.2219159603118896,	241.0, 241
11	37		automobile	




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			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	72.0, 52
			0.0, 0.0, 0.0, 0.0, 0.0,	69.0, 82
			0.04018378257751465,	56.0, 74
			0.0, 0.0,	87.0, 56
			3.4361579418182373,	74.0, 88
			0.37677204608917236,	58.0, 77
			0.0,	92.0, 58
			2.3448643684387207,	78.0, 92
			0.0, 0.0, 0.0, 0.0, 0.0,	61.0, 77
			2.4804694652557373,	88.0, 65
			0.0, 0.0,	78.0, 87
			1.0676860809326172,	62.0, 75
			0.22185784578323364,	88.0, 43
			0.0, 0.0,	61.0, 78
			1.5831074714660645,	34.0, 55
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	72.0, 34
			0.0, 0.0, 0.0, 0.0, 0.0,	51.0, 65
			3.3944456577301025,	39.0, 53
			1.3278591632843018,	65.0, 42
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	58.0, 71
			0.0, ...]	72.0, 90
				100.0, 41
			[0.0, 0.0, 0.0, 0.0, 0.0,	[149.0, 145
			0.0, 8.335664749145508,	150.0, 145
			0.0, 0.0, 0.0, 0.0, 0.0,	149.0, 146
			1.0249513387680054,	140.0, 140
			0.5708426237106323,	139.0, 145
			0.0,	149.0, 150
			0.3272590637207031,	148.0, 148
			0.0, 1.138114333152771,	148.0, 143
			0.9330660700798035,	141.0, 142
			1.207074522972107, 0.0,	149.0, 145
			0.4371185898780823,	147.0, 143
			2.1041064262390137,	139.0, 140
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	147.0, 144
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	145.0, 145
			0.9603257179260254,	143.0, 145
			0.0, 0.0,	146.0, 138
			2.1055190563201904,	141.0, 154
			1.4770066738128662,	144.0, 146
			0.0, 0.0, 0.0,	150.0, 135
			0.5619850754737854,	140.0, 147
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	137.0, 138
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	145.0, 138
			0.0, 0.0,	139.0, 152
			0.9189208745956421,	140.0, 146
			0.0,	221.0, 178
			0.08788084983825684,	212.0, 181
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	138.0, 171
13	42		dog	

id	image	label	deep_features	image_arr
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				164.0, 220
				124.0, 177
				206.0, 106
				168.0, 175
				107.0, 147
			0.0, 0.0, 0.0, 0.0, 0.0,	199.0, 106
			5.404240131378174, 0.0,	148.0, 192
			0.0, 3.404264450073242,	123.0, 153
			0.0, 0.0, 0.0,	169.0, 138
			1.0296190977096558,	142.0, 114
			1.4786778688430786,	110.0, 86
			0.0, 0.0, 0.0, 0.0,	77.0, 82
			0.7193591594696045,	44.0, 123
			0.0, 0.0, 0.0, 0.0, 0.0,	115.0, 98
			1.9836783409118652,	181.0, 145
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	166.0, 175
			0.0, 0.0, ...]	147.0, 171
				165.0, 149
				164.0, 167
				160.0, 173
				147.0, 147
				147.0, 150
			[0.0, 0.0,	[22.0, 27
			0.25575894117355347,	19.0, 30
			0.0, 0.0, 0.0,	36.0, 26
			11.489317893981934,	30.0, 36
			0.0, 0.0, 0.0, 0.0, 0.0,	23.0, 30
			1.5503816604614258,	36.0, 21
			0.4125245213508606,	34.0, 38
			0.0,	21.0, 30
			0.5296006202697754,	32.0, 16
			0.0,	46.0, 48
			1.3177211284637451,	34.0, 27
			0.0, 0.0, 0.0,	29.0, 19
			1.028001308441162, 0.0,	17.0, 20
14	46		0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	14.0, 18
		cat	0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	21.0, 16
			0.6827563047409058,	22.0, 23
			0.0, 0.0,	16.0, 31
			0.8730356693267822,	31.0, 25
			1.0441665649414062,	26.0, 26
			0.0, 0.0,	22.0, 18
			0.06528693437576294,	19.0, 9
			0.0, 0.0, 0.0, 0.0, 0.0,	37.0, 40
			0.47347670793533325,	20.0, 56
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	56.0, 39
			0.0, 0.0, 0.0,	47.0, 34
			0.6099678874015808,	22.0, 127
			0.0, 0.0, 0.0, 0.0,	95.0, 75
			0.48074138164520264,	236.0, 191


id	image	label	deep_features	image_arr
				162.0, 241
				197.0, 164
				235.0, 200
				163.0, 235
			0.0, 0.0,	203.0, 165
			1.1085878610610962,	235.0, 198
			0.0, 0.0, 0.0, 0.0, 0.0,	171.0, 236
			3.679373264312744, 0.0,	198.0, 160
			0.0,	235.0, 203
			1.3337198495864868,	159.0, 187
			0.0, 0.0, 0.0,	157.0, 138
			1.063727617263794, 0.0,	132.0, 102
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	94.0, 156
			0.0, 0.0, 0.0, 0.0,	109.0, 85
			2.9647772312164307,	211.0, 135
			0.0,	107.0, 234
			1.7907929420471191,	155.0, 117
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	218.0, 151
			...]	114.0, 193
				150.0, 121
				22.0, 26
				16.0, 41.0,
			[0.6107316613197327,	[255.0, 255
			0.0, 0.0, 0.0, 0.0, 0.0,	251.0, 245
			8.572711944580078, 0.0,	251.0, 246
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	229.0, 225
			0.0,	217.0, 160
			0.21202319860458374,	151.0, 135
			0.23655498027801514,	137.0, 126
			1.9055719375610352,	111.0, 168
			0.9969327449798584,	155.0, 137
			0.0, 0.0,	163.0, 148
			2.5466599464416504,	125.0, 125
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	112.0, 86
			0.0, 0.0,	159.0, 141
			0.7939028739929199,	116.0, 157
			0.0,	140.0, 116
			0.5087097883224487,	143.0, 126
			0.0, 0.0, 0.0, 0.0, 0.0,	102.0, 156
			1.7846993207931519,	139.0, 115
			2.5863332748413086,	192.0, 175
			0.0, 0.0, 0.0,	151.0, 193
			1.2878737449645996,	173.0, 150
			0.8766915798187256,	151.0, 125
			0.0, 0.0, 0.0,	104.0, 162
			1.3025563955307007,	139.0, 110
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	169.0, 144
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	111.0, 185
			0.0, 0.0,	160.0, 123
			0.586432933807373,	212.0, 194
			0.6512452363967896,	158.0, 235
			0.0,	228.0, 205
15	53		cat	


id	image	label	deep_features	image_arr
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				243.0, 247
				248.0, 238
			0.32813167572021484,	250.0, 251
			0.0, 0.0, 0.0, 0.0, 0.0,	238.0, 247
			1.4405639171600342,	247.0, 238
			0.0, 0.0,	249.0, 249
			2.0590498447418213,	243.0, 228
			0.0, 0.0, 0.0,	222.0, 219
			2.1692452430725098,	127.0, 121
			1.494140625, 0.0, 0.0,	121.0, 68
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	51.0, 54
			0.0,	67.0, 47
			0.6095828413963318,	37.0, 87
			2.9159657955169678,	70.0, 46
			1.236635684967041,	95.0, 78
			0.710898756980896, 0.0,	54.0, 94
			0.0, 0.0, 0.0, 0.0, 0.0, ...]	76.0, 60
				253.0, 252
				243.0, 251
			[0.9359390735626221,	[10.0, 10
			0.0,	10.0, 10
			0.7783024311065674,	10.0, 10
			0.0, 0.0, 0.0,	10.0, 10
			8.924976348876953,	10.0, 10
			1.365602731704712, 0.0,	10.0, 10
			0.0, 0.0, 0.0,	11.0, 9.0, 7
			1.8792970180511475,	9.0, 10.0, 8
			0.0, 0.0,	6.0, 14
			1.0372374057769775,	11.0, 8
			0.0,	11.0, 4
			0.6456549167633057,	31.0, 24
			0.0,	15.0, 111
			0.35743361711502075,	84.0, 62
			0.0,	145.0, 93
16	61	cat	1.6001195907592773,	53.0, 130
			0.0,	66.0, 23
			0.3012700080871582,	120.0, 62
			0.0, 0.0,	27.0, 113
			0.010759353637695312,	64.0, 34
			0.0, 0.0, 0.0, 0.0,	106.0, 60
			0.6613531112670898,	27.0, 107
			0.0, 0.0,	69.0, 38
			0.34907859563827515,	79.0, 48
			0.7972486615180969,	23.0, 58
			0.0,	37.0, 17
			0.17163056135177612,	52.0, 40
			0.9950272440910339,	24.0, 56
			0.6541868448257446,	48.0, 34
			0.0, 0.0,	70.0, 56
			1.5096368789672852,	40.0, 82

id	image	label	deep_features	image_arr
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17	63	cat	[0.0, 0.0, 0.3594752550125122, 0.0, 0.0, 0.0, 9.730393409729004, 0.0, 0.0, 0.0, 0.016770243644714355, 0.0, 1.045646071434021, 1.4242650270462036, 0.0, 3.2382638454437256, 1.7965571880340576, 0.432411253452301, 0.3484719395637512, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 1.6610100269317627, 0.0, 0.0, 0.0, 0.0, 1.7605116367340088, 0.0, 0.5279660820960999, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	[233.0, 225 209.0, 201 170.0, 123 217.0, 195 159.0, 239 229.0, 214 244.0, 239 234.0, 237 226.0, 211 227.0, 209 179.0, 223 200.0, 163 218.0, 189 146.0, 202 173.0, 125 218.0, 196 164.0, 234 223.0, 202 238.0, 228 212.0, 243 234.0, 222


id	image	label	deep_features	image_arr
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				190.0, 238
				221.0, 198
			0.0, 0.0,	252.0, 248
			2.547590494155884, 0.0,	245.0, 258
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	255.0, 258
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	255.0, 258
			0.0, 0.0, 0.0, 0.0,	255.0, 258
			2.2708988189697266,	255.0, 258
			0.0, 0.0, 0.0, 0.0, 0.0,	255.0, 258
			1.4115111827850342,	255.0, 258
			0.0, 0.0,	255.0, 258
			0.4356752634048462,	255.0, 258
			0.0, 0.0,	255.0, 258
			1.4157421588897705,	253.0, 252
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	232.0, 232
			1.6795837879180908,	228.0, 198
			0.0, 0.0,	195.0, 188
			0.16709858179092407,	213.0, 208
			0.0,	188.0, 152
			1.6357386112213135,	138.0, 104
			0.0,	99.0, 81
			0.8353381156921387,	35.0, 98
			0.0, 0.0, 0.0, 0.0,	77.0, 32
			1.4878549575805664,	90.0, 71
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	26.0, 87
			0.0, 0.0, ...]	66.0, 22
				231.0, 222
				204.0, 198
			[0.8887743949890137,	[201.0, 208
			0.0, 0.0,	166.0, 187
			1.2441116571426392,	180.0, 132
			0.037762224674224854,	146.0, 148
			0.0,	86.0, 112
			10.961806297302246,	122.0, 58
			0.0, 0.0, 0.0, 0.0, 0.0,	102.0, 117
			2.3533668518066406,	57.0, 121
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	128.0, 78
			0.3604578971862793,	146.0, 147
			0.0, 0.0, 0.0, 0.0, 0.0,	103.0, 158
			0.6884146332740784,	159.0, 121
			0.22842085361480713,	131.0, 138
			0.0, 0.0, 0.0, 0.0, 0.0,	103.0, 81
			0.9350534081459045,	95.0, 62
			0.0, 0.0,	59.0, 66
			1.1466987133026123,	43.0, 38
			0.0, 0.0,	39.0, 21
			2.6750423908233643,	46.0, 37
			0.3583858013153076,	25.0, 88
			0.0, 0.0, 0.0,	78.0, 70
			0.7718955874443054,	146.0, 138

id	image	label	deep_features	image_arr
				131.0, 133.0, 127.0, 121.0, 77.0, 74.0, 63.0, 46.0, 49.0, 28.0, 34.0, 43.0, 16.0, 30.0, 43.0, 28.0, 68.0, 45.0, 36.0, 66.0, 25.0, 35.0, 68.0, 13.0, 46.0, 75.0, 23.0, 51.0, 83.0, 37.0, 65.0, 95.0, 64.0, 65.0, 107.0, 56.0, 66.0, 114.0, 35.0, 90.0, 134.0, 51.0, 75.0, 105.0, 48.0, 45.0, 67.0, 31.0, 217.0, 210.0, 172.0, 170.0, ...]
19	66	automobile	[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 8.66312026977539, 0.0, 0.0, 0.0, 1.6956961154937744, 0.0, 1.6293526887893677, 0.0, 0.0, 1.2005332708358765, 1.8223545551300049, 0.0, 0.0, 1.5492353439331055, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.33393633365631104, 0.0, 0.0, 0.0, 0.0, 0.09024471044540405, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.44008469581604004, 0.0, 0.0, 0.30674082040786743, 0.0, 0.0, 0.0, 0.0, 0.0, 0.9899206161499023, 0.0, 0.0,	[109.0, 65.0, 29.0, 84.0, 65.0, 46.0, 100.0, 101.0, 93.0, 113.0, 124.0, 115.0, 118.0, 130.0, 124.0, 122.0, 131.0, 126.0, 124.0, 133.0, 128.0, 126.0, 135.0, 130.0, 127.0, 136.0, 131.0, 127.0, 134.0, 130.0, 128.0, 134.0, 130.0, 129.0, 136.0, 132.0, 128.0, 134.0, 130.0, 131.0, 137.0, 133.0, 146.0]

id	image	label	deep_features	image_arr
				152.0, 148.0, 105.0, 107.0, 102.0, 102.0, 103.0, 97.0, 123.0, 124.0, 0.2861745357513428, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.9585159420967102, 0.0, 0.0, 1.5427219867706299, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.5973227024078369, 0.5649165511131287, 0.0, 0.0, 0.4265313148498535, 0.0, 0.0, 0.0, 0.0, 3.323366641998291, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, ...] 117.0, 126.0, 121.0, 115.0, 124.0, 119.0, 110.0, 66.0, 30.0, 85.0,
20	67		bird	[0.31579452753067017, 0.0, 0.0, 0.5863813161849976, 0.0, 1.8634576797485352, 8.536940574645996, 0.0, 0.3806188702583313, 0.03203362226486206, 0.0, 0.0, 0.0, 0.0, 0.5026806592941284, 0.3315207362174988, 0.6391423344612122, 0.0, 0.0, 0.033209919929504395, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.19365990161895752, 0.0, 0.0, 0.0, 0.0, 0.0, 0.14713793992996216, 2.9559056758880615, 0.0, 0.0, 0.0, 0.0, 0.37315452098846436, 0.1277652382850647, 0.0, 0.0, 1.3048667907714844, [76.0, 170.0, 228.0, 77.0, 171.0, 225.0, 80.0, 174.0, 227.0, 79.0, 171.0, 223.0, 85.0, 176.0, 228.0, 84.0, 175.0, 227.0, 82.0, 172.0, 224.0, 83.0, 178.0, 226.0, 81.0, 176.0, 223.0, 81.0, 172.0, 223.0, 96.0, 189.0, 242.0, 101.0, 199.0, 253.0, 99.0, 199.0, 254.0, 100.0, 199.0, 254.0, 100.0, 199.0, 254.0, 100.0, 199.0, 254.0, 100.0, 199.0]


id	image	label	deep_features	image_arr
				254.0, 95
			0.24677181243896484,	199.0, 254
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	99.0, 198
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	253.0, 95
			0.0,	198.0, 253
			1.5246570110321045,	99.0, 198
			0.0,	255.0, 98
			0.22956407070159912,	197.0, 254
			0.5389273762702942,	97.0, 196
			1.1567416191101074,	253.0, 97
			0.0,	196.0, 253
			1.6652369499206543,	96.0, 195
			0.0, 0.0,	254.0, 95
			0.5136688947677612,	195.0, 254
			0.0, 0.0,	94.0, 195
			2.940603256225586, 0.0,	254.0, 94
			0.0, 0.0,	194.0, 253
			2.857210159301758,	94.0, 194
			0.33094102144241333,	255.0, 92
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	193.0, 255
			0.0, 0.0, 0.0, 0.0,	91.0, 191
			4.2989349365234375,	253.0, 91
			1.0590760707855225,	192.0, 255
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	93.0, 194
			0.0, ...]	254.0, 93
			[0.7087016105651855,	[61.0, 44
			0.0, 0.0, 0.0,	21.0, 55
			0.1981331706047058,	41.0, 17
			0.0, 10.37449836730957,	58.0, 48
			0.0, 0.0, 0.0, 0.0, 0.0,	23.0, 80
			1.5331093072891235,	73.0, 45
			0.0, 0.0,	92.0, 87
			1.3795909881591797,	53.0, 100
			0.0, 0.0,	98.0, 63
			0.3329688310623169,	109.0, 109
			0.05865532159805298,	86.0, 135
			0.0,	137.0, 124
21	68		0.00571829080581665,	147.0, 145
			0.22754192352294922,	136.0, 132
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	123.0, 117
			0.0, 0.0,	138.0, 127
			1.4250222444534302,	126.0, 174
			0.0, 0.0, 0.0,	166.0, 163
			1.7562086582183838,	148.0, 129
			0.0,	111.0, 160
			0.08474355936050415,	137.0, 117
			0.7110390663146973,	166.0, 146
			0.9523921012878418,	131.0, 164
			0.0, 0.0,	147.0, 135
			0.033893465995788574,	203.0, 175
			0.0, 0.0, 0.0, 0.0, 0.0,	165.0, 182


id	image	label	deep_features	image_arr
			0.16987204551696777, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.8544387817382812, 0.0, 0.0, 0.0, 0.0, 1.0488712787628174, 0.0, 0.0, 1.677984595298767, 0.0, 0.0, 0.5933839082717896, 0.0, 0.0, 3.6481497287750244, 0.0, 0.0, 3.8639721870422363, 0.0, 0.0, 0.0, 1.4649698734283447, 1.0162732601165771, 0.0, 0.0, 0.0, 0.0, 0.0025850534439086914, 0.0, 0.0, 0.0, 0.0, 0.0, 3.0222573280334473, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, ...]	151.0, 140 153.0, 134 119.0, 127 121.0, 101 128.0, 130 115.0, 221 221.0, 220 204.0, 192 194.0, 177 164.0, 168 187.0, 177 181.0, 153 139.0, 137 138.0, 126 122.0, 70 64.0, 60 76.0, 65 66.0, 94 85.0, 84 113.0, 105 107.0, 98 97.0, 100 58.0, 42 20.0, 59.0,
22	70	bird	[1.3413487672805786, 0.0, 0.0, 0.0, 0.0, 0.0, 8.614006042480469, 0.0, 0.0, 0.0, 0.0, 0.0, 1.8730390071868896, 0.5401266813278198, 0.0, 0.27808523178100586, 1.9081510305404663, 0.6491351127624512, 0.0, 0.17400753498077393, 0.0, 1.410926342010498, 0.6138384342193604, 0.6598066091537476, 0.0, 3.426180124282837, 0.4560548663139343, 0.989979088306427, 0.0, 0.0, 0.0, 0.5716770887374878, 0.8641743659973145, 0.9921354055404663, 0.0, 0.2793600559234619, 0.0, 0.0, 0.21551460027694702, 1.2005236148834229, 0.7605483531951904,	[193.0, 181 145.0, 181 172.0, 147 187.0, 180 165.0, 206 199.0, 186 199.0, 190 177.0, 200 192.0, 180 218.0, 213 205.0, 235 233.0, 228 228.0, 224 217.0, 222 217.0, 208 222.0, 216 206.0, 215 213.0, 202 214.0, 207 196.0, 211 205.0, 192 213.0, 206 195.0, 201 193.0, 181 208.0, 201 190.0, 227 223.0, 213 207.0, 195


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23	75		bird	[1.9216156005859375, 0.0, 0.0, 0.0, 0.9056193828582764, 0.0, 9.413800239562988, 0.8118677735328674, 0.0, 0.0, 0.0, 0.8820981979370117, 2.8244473934173584, 0.42421311140060425, 0.0, 0.0, 3.0844569206237793, 1.0327332019805908, 0.0, 0.0, 0.0, 0.37700968980789185, 0.0, 0.0, 0.0, 0.5429766774177551, 1.9101285934448242, 0.0, 0.0, 0.0, 0.0, 1.8755652904510498, 0.0, 0.0, 0.10075235366821289, 1.2380032539367676, 0.0, 0.0, 0.0, 5.47775936126709, 0.0, 0.0, 0.0, 2.609609603881836, 0.455596387386322, 1.835335373878479, 0.0,	[63.0, 111 53.0, 63 110.0, 53 65.0, 113 55.0, 71 118.0, 61 77.0, 125 67.0, 83 130.0, 72 85.0, 131 74.0, 87 137.0, 78 89.0, 140 82.0, 94 142.0, 86 97.0, 144 87.0, 98 145.0, 86 98.0, 147 84.0, 99 147.0, 84 106.0, 148 89.0, 109 150.0, 93 111.0, 152 96.0, 113 153.0, 96 117.0, 157


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			0.0, 0.0, 0.0, 0.0,	100.0, 119
			0.10050421953201294,	158.0, 106
			0.0, 0.0,	119.0, 159
			1.4132143259048462,	107.0, 121
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	160.0, 109
			0.0, 0.0, 0.0,	124.0, 164
			0.24779903888702393,	112.0, 125
			0.0, 0.0, 0.0, 0.0, 0.0,	164.0, 114
			1.6057862043380737,	128.0, 164
			0.0, 1.00948166847229,	118.0, 131
			0.0, 0.0,	167.0, 121
			2.216317653656006, 0.0,	134.0, 169
			1.3382771015167236,	124.0, 137
			0.0, 3.662652015686035,	173.0, 128
			0.7818913459777832,	141.0, 176
			0.0, 0.0,	130.0, 144
			0.4776890277862549,	175.0, 131
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	144.0, 175
			0.0, 3.854679584503174,	131.0, 145
			0.0, 1.336167573928833,	176.0, 132
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	66.0, 115
			...]	56.0, 67.0,
			[0.2956387400627136,	[51.0, 49
			0.0, 0.0, 0.0, 0.0, 0.0,	53.0, 57
			11.843360900878906,	56.0, 61
			0.0, 0.0, 0.0, 0.0, 0.0,	61.0, 61
			0.348508358001709, 0.0,	67.0, 65
			0.0,	67.0, 73
			0.6617345809936523,	67.0, 69
			0.6049143671989441,	75.0, 67
			2.136829137802124, 0.0,	68.0, 73
			0.0, 0.0,	63.0, 64
			2.0411367416381836,	69.0, 59
			0.0, 0.0, 0.0, 0.0, 0.0,	60.0, 65
			0.31309831142425537,	48.0, 48
			0.0, 0.0, 0.0,	54.0, 47
24	77	cat	1.2413209676742554,	46.0, 52
			0.14107054471969604,	54.0, 53
			0.0, 0.0, 0.0, 0.0, 0.0,	59.0, 68
			2.338914394378662,	67.0, 73
			1.332667589187622, 0.0,	71.0, 70
			0.0,	76.0, 77
			0.15129244327545166,	76.0, 82
			0.0, 0.0,	75.0, 74
			0.19125127792358398,	82.0, 73
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	73.0, 84
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	76.0, 76
			0.0, 0.0, 0.0, 0.0, 0.0,	86.0, 77
			0.30965226888656616,	77.0, 88
			0.42963075637817383,	76.0, 76
			0.0, 2.392362356185913,	87.0, 77
			0.0, 0.0, 0.0, 0.0, 0.0,	77.0, 88


id	image	label	deep_features	image_arr
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				86.0, 79
				79.0, 89
				78.0, 78
			3.4447457790374756,	88.0, 75
			0.0, 0.0,	74.0, 85
			0.8753607273101807,	73.0, 75
			0.0, 0.0, 0.0,	84.0, 71
			1.492510437965393,	76.0, 86
			0.6153655052185059,	69.0, 73
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	83.0, 72
			0.0, 0.0, 0.0, 0.0,	75.0, 85
			3.3088362216949463,	75.0, 76
			0.10004597902297974,	87.0, 72
			0.6388422250747681,	70.0, 80
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	58.0, 54
			...]	56.0, 55
				51.0, 53
				55.0, 52
				58.0, 60.0,
			[0.0, 0.0, 0.0, 0.0, 0.0,	[38.0, 24
			0.0, 8.648406982421875,	12.0, 50
			0.0, 0.0, 0.0, 0.0, 0.0,	31.0, 24
			1.8453969955444336,	37.0, 21
			0.0, 0.0,	16.0, 17
			0.37210613489151, 0.0,	14.0, 2
			2.128342866897583,	63.0, 38
			0.0313759446144104,	25.0, 104
			0.0, 0.0,	67.0, 50
			1.2365933656692505,	90.0, 56
			0.0, 0.0, 0.0, 0.0, 0.0,	37.0, 96
			0.00721818208694458,	58.0, 42
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	112.0, 70
			0.0, 0.0, 0.0, 0.0,	55.0, 112
			1.6151533126831055,	70.0, 55
25	78	cat	1.463609218597412, 0.0,	114.0, 74
			0.0,	58.0, 105
			0.49851903319358826,	69.0, 53
			0.0, 0.0, 0.0,	83.0, 51
			0.561389148235321, 0.0,	34.0, 105
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	65.0, 48
			0.0, 0.0, 0.0, 0.0,	112.0, 66
			0.6883721947669983,	49.0, 115
			0.15781182050704956,	69.0, 50
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	123.0, 74
			1.4558696746826172,	58.0, 121
			0.0, 0.0, 0.0, 0.0, 0.0,	75.0, 59
			3.502486228942871, 0.0,	119.0, 76
			0.0,	59.0, 122
			0.2998018264770508,	75.0, 59
			0.0,	124.0, 73
			0.48775118589401245,	59.0, 122


id	image	label	deep_features	image_arr
				73.0, 58
				119.0, 73
				57.0, 116
			0.0,	73.0, 56
			1.0548778772354126,	115.0, 71
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	54.0, 115
			0.0,	68.0, 52
			0.0879092812538147,	114.0, 67
			0.0, 0.0, 0.0,	52.0, 114
			3.8452630043029785,	67.0, 51
			1.504375696182251,	111.0, 66
			1.3476017713546753,	48.0, 107
			0.0, 0.0, 0.0, 0.0,	65.0, 51
			0.25222355127334595,	103.0, 58
			0.0, ...]	47.0, 163
				111.0, 62
				33.0, 22
				12.0, 36.0,
			[0.0, 0.0, 0.0,	[2.0, 2
			0.6001682877540588,	13.0, 0.0, 0
			0.0, 0.0,	12.0, 0.0, 0
			3.62981915473938, 0.0,	11.0, 1.0, 2
			0.0, 0.0,	11.0, 7.0, 7
			3.952143669128418, 0.0,	14.0, 16
			0.0, 0.0,	14.0, 20
			0.5605278015136719,	23.0, 18
			3.2150473594665527,	23.0, 26
			0.0, 0.0,	21.0, 24
			0.13106882572174072,	24.0, 20
			0.5278881192207336,	21.0, 25
			0.0, 0.0, 0.0, 0.0,	18.0, 18
			2.342477321624756, 0.0,	29.0, 20
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	21.0, 26
			0.0,	17.0, 18
26	81		0.18728196620941162,	29.0, 20
		automobile	0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	21.0, 32
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	23.0, 24
			0.0, 0.0,	32.0, 23
			0.26979583501815796,	24.0, 25
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	20.0, 20
			2.2734599113464355,	28.0, 19
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	18.0, 21
			0.0, 0.0, 0.0,	15.0, 15
			0.4889807105064392,	27.0, 18
			2.7344560623168945,	15.0, 39
			0.0, 0.0,	28.0, 22
			0.9079815745353699,	38.0, 29
			0.0, 0.0,	23.0, 35
			2.706943988800049, 0.0,	25.0, 23
			0.0,	33.0, 23
			2.2446508407592773,	21.0, 33
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	24.0, 22


id	image	label	deep_features	image_arr
				35.0, 26
				24.0, 35
				23.0, 21
			0.0, 0.0,	36.0, 28
			0.24076145887374878,	25.0, 38
			0.0, 0.0,	30.0, 27
			1.234310507774353, 0.0,	38.0, 30
			0.0, 0.0,	27.0, 42
			1.8016815185546875,	32.0, 28
			0.7617918252944946,	50.0, 37
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	29.0, 52
			0.0, ...]	39.0, 30
				2.0, 0.0, 15
				5.0,
			[0.0, 0.0, 0.0,	[45.0, 70
			0.97667396068573,	27.0, 48
			0.9573432207107544,	76.0, 31
			0.0, 7.195347309112549,	62.0, 81
			0.0,	44.0, 68
			0.19409120082855225,	83.0, 52
			0.0, 0.0, 0.0,	57.0, 71
			1.471588134765625,	45.0, 37
			1.486980676651001, 0.0,	48.0, 28
			3.000606060028076,	48.0, 52
			2.953547239303589, 0.0,	36.0, 48
			0.0,	55.0, 32
			2.3893961906433105,	52.0, 66
			0.0, 0.0,	35.0, 45
			0.12423104047775269,	56.0, 34
			1.2189419269561768,	45.0, 58
			0.0, 0.0,	31.0, 54
			0.2905190587043762,	71.0, 32
27	82		automobile	0.0, 0.0, 0.0, 0.0, 0.0, 0.0,
				58.0, 78
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	35.0, 65
			0.0, 0.0, 0.0,	94.0, 37
			0.605180561542511, 0.0,	70.0, 95
			0.12644922733306885,	44.0, 81
			0.1775496006011963,	102.0, 51
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	97.0, 114
			0.0, 0.0, 0.0,	60.0, 113
			1.1830796003341675,	127.0, 72
			0.06504833698272705,	116.0, 143
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	68.0, 105
			0.0,	134.0, 54
			0.32956063747406006,	106.0, 135
			0.0,	42.0, 136
			3.7995808124542236,	168.0, 53
			0.27646851539611816,	159.0, 191
			0.0, 0.0, 0.0, 0.0,	80.0, 167
			4.737593173980713,	191.0, 100
			0.9490643739700317,	163.0, 191
			0.0, 4.183581352233887,	95.0, 136


id	image	label	deep_features	image_arr
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.06522321701049805, 0.38412028551101685, 0.0, 1.6915462017059326, 0.0, 0.0, 0.0, 0.0, 0.2331354022026062, 0.5221348404884338, 0.7515329122543335, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, ...]	171.0, 73 144.0, 174 90.0, 132 169.0, 77 110.0, 150 51.0, 128 154.0, 68 155.0, 172 84.0, 133 151.0, 70 41.0, 64 26.0, 42.0,
			[0.4728275537490845, 0.0, 0.0, 0.0, 0.0, 0.0, 9.65793228149414, 0.6406404972076416, 0.0, 1.3471652269363403, 0.0, 0.0, 1.1411869525909424, 0.7792825698852539, 0.0, 1.1618914604187012, 0.460112988948822, 0.34734398126602173, 1.562074899673462, 0.0, 0.0, 0.027453482151031494, 0.5134366750717163, 0.0, 0.0, 0.0, 0.2943875193595886, 0.0, 0.0, 0.0, 0.0, 0.81095290184021, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 1.123977780342102, 3.099764823913574, 0.0, 0.0, 0.0, 0.0, 0.35115742683410645, 0.0, 0.5537106394767761, 0.0, 1.3976287841796875, 0.0, 1.099812626838684, 0.6553859114646912, 0.0, 0.9496374130249023, 0.971118152141571, 0.0, 3.592719316482544, 0.0,	[233.0, 231 230.0, 226 225.0, 223 228.0, 228 226.0, 229 228.0, 227 229.0, 228 227.0, 229 228.0, 226 229.0, 228 226.0, 228 228.0, 226 227.0, 228 226.0, 227 228.0, 226 227.0, 228 226.0, 227 228.0, 226 227.0, 228 226.0, 227 228.0, 226 229.0, 228 228.0, 226 228.0, 229 229.0, 227 228.0, 228 226.0, 227 228.0, 226 228.0, 226 228.0, 226 229.0, 227 228.0, 228 226.0, 227 228.0, 226 227.0, 229 224.0, 226 230.0, 224
28	84		bird	


id	image	label	deep_features	image_arr
				226.0, 225
				223.0, 225
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	228.0, 222
			0.0,	224.0, 225
			0.24988138675689697,	222.0, 224
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	229.0, 220
			3.753783941268921,	223.0, 224
			0.6208086609840393,	217.0, 220
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	224.0, 220
			0.0, ...]	219.0, 237
			[0.0,	[113.0, 174
			0.29846465587615967,	228.0, 115
			0.0, 0.0, 0.0, 0.0,	174.0, 227
			8.613344192504883, 0.0,	115.0, 176
			0.0,	228.0, 115
			0.8084539175033569,	176.0, 225
			0.0, 0.0,	117.0, 178
			2.3877148628234863,	233.0, 115
			0.0, 0.0,	180.0, 236
			1.4420030117034912,	120.0, 180
			0.8581312894821167,	237.0, 120
			0.0,	180.0, 236
			1.0676316022872925,	120.0, 180
			0.7201347351074219,	236.0, 120
			0.0, 0.0,	181.0, 232
			0.33720821142196655,	120.0, 181
			0.05402958393096924,	230.0, 121
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	182.0, 231
			0.0,	121.0, 183
29	85		1.2306727170944214,	232.0, 121
		dog	0.5356436967849731,	182.0, 232
			0.0, 0.0,	117.0, 181
			1.805777668952942, 0.0,	232.0, 116
			0.0, 0.0,	181.0, 233
			4.460323810577393, 0.0,	116.0, 181
			0.0, 0.0, 0.0,	232.0, 116
			0.7294834852218628,	180.0, 232
			1.0813500881195068,	116.0, 180
			0.2048037052154541,	232.0, 116
			0.0,	180.0, 232
			1.5274182558059692,	117.0, 180
			0.222611665725708, 0.0,	231.0, 116
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	179.0, 225
			0.0,	114.0, 177
			0.7677645683288574,	226.0, 115
			0.0,	176.0, 224
			1.6830248832702637,	112.0, 174
			0.0, 0.0,	223.0, 110
			0.05051642656326294,	172.0, 223
			0.0, 0.0,	112.0, 174
			1.3966740369796753,	229.0, 105


id	image	label	deep_features	image_arr	
			0.0, 0.0, 1.2253764867782593, 0.45238450169563293, 0.0, 1.253146767616272, 1.2359354496002197, 0.0, 3.3630316257476807, 0.0, 0.0, 0.0, 2.2009878158569336, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.3103521466255188, 3.307898998260498, 0.452700674533844, 0.0, 0.0, 0.0, 0.0, 0.0, 0.1840459704399109, 0.0, ...]	172.0, 230 105.0, 167 227.0, 105 161.0, 217 93.0, 143 196.0, 94 142.0, 194 119.0, 182 234.0, 119	
30	86		bird	[0.0, 0.0, 0.0, 0.0, 0.0, 0.017020225524902344, 12.15108871459961, 0.0, 0.0, 0.0, 0.0, 0.0, 1.4390575885772705, 0.0, 0.0, 0.4961034059524536, 0.7972069382667542, 0.6147810220718384, 0.0, 0.09701073169708252, 0.0, 1.838680386543274, 0.0, 0.2789791226387024, 0.15201199054718018, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.7094452977180481, 0.4125092625617981, 0.45625030994415283, 0.0, 0.0, 0.0, 0.0, 1.4538766145706177, 1.7605550289154053, 0.0, 0.0, 0.4316663146018982, 0.0, 0.0, 0.0, 0.0, 0.0, 0.16415351629257202, 0.0, 0.0, 1.4397060871124268, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.04840117692947388, 0.0, 0.0, 0.0, 0.0, 1.3732430934906006, 0.0, 0.3954278826713562, 1.6564571857452393,	[116.0, 167 136.0, 110 167.0, 139 101.0, 165 141.0, 93 166.0, 143 78.0, 159 135.0, 57 146.0, 119 33.0, 126 96.0, 19 106.0, 76 17.0, 86 61.0, 17 69.0, 50 15.0, 64 46.0, 12 67.0, 47 11.0, 72 51.0, 12 73.0, 50 22.0, 65 43.0, 42 54.0, 38 54.0, 42 36.0, 49 45.0, 38 28.0, 60 43.0, 15 72.0, 48 17.0, 71 49.0, 27 65.0, 45 34.0, 64 38.0, 45


id	image	label	deep_features	image_arr
			0.0, 0.0, 0.41945207118988037, 0.0, 0.0, 3.1698970794677734, 0.5450860261917114, 0.0, 2.9044928550720215, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.028192758560180664, 0.0, 0.0, 0.03289139270782471, 0.0, 0.0, 0.0, 0.0, 0.0, 2.874572277069092, 1.0758297443389893, 0.8607975840568542, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, ...]	69.0, 41 64.0, 79 54.0, 87 90.0, 69 111.0, 106 87.0, 131 122.0, 104 140.0, 132 114.0, 122 119.0, 105 88.0, 97 82.0, 72 97.0, 78 105.0, 164 141.0, 127
			[1.2488667964935303, 0.0, 0.0, 0.019640564918518066, 0.7285221219062805, 0.02451145648956299, 9.665582656860352, 0.0, 0.0, 0.0, 0.0, 0.0, 1.3380008935928345, 0.0, 0.0, 0.5348608493804932, 0.7440563440322876, 0.0, 0.0, 0.0, 0.0, 1.1566076278686523, 0.0, 0.0, 0.0, 0.3945026993751526, 1.6347600221633911, 0.0, 0.0, 0.0, 0.5343652367591858, 2.837952136993408, 1.8872445821762085, 0.0, 0.0, 1.4923957586288452, 0.0, 0.0, 1.863452672958374, 0.19348472356796265, 0.3817421793937683, 0.0, 0.0, 0.0, 0.0, 0.9542422890663147, 0.4220339059829712, 0.0, 0.19354629516601562, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.9051675796508789, 0.0, 0.0,	[72.0, 75 57.0, 70 74.0, 52 63.0, 67 43.0, 60 66.0, 42 62.0, 70 43.0, 69 78.0, 41 68.0, 72 44.0, 60 62.0, 42 68.0, 76 40.0, 92 98.0, 58 121.0, 118 89.0, 103 105.0, 70 109.0, 112 73.0, 107 103.0, 72 64.0, 61 41.0, 63 62.0, 42 66.0, 68 42.0, 55 58.0, 38 67.0, 76 62.0, 87 96.0, 83 97.0, 104 91.0, 109 119.0, 103 99.0, 102 77.0, 58
31	91		cat	

id	image	label	deep_features	image_arr	
			2.4503650665283203, 0.8646789789199829, 0.0, 1.4232310056686401, 0.0, 0.07949435710906982, 0.0, 0.4248051643371582, 0.0, 0.0, 0.0, 0.0, 2.0784444480895996, 0.0, 0.0, 0.0, 1.058274507522583, 0.15732336044311523, 0.0, 0.0, 0.0, 0.0, 0.3967894911766052, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, ...]	66.0, 38 49.0, 64 39.0, 52 65.0, 43 50.0, 61 44.0, 49 62.0, 44 49.0, 65 45.0, 60 81.0, 58 78.0, 104 76.0, 79 104.0, 77 62.0, 64 47.0, 62.0,	
32	101		dog	[0.5911874771118164, 0.0, 0.0, 0.0, 0.4201051592826843, 0.38600701093673706, 9.504890441894531, 0.0, 0.0, 0.0, 0.0, 0.0, 1.3736393451690674, 1.6426770687103271, 0.0, 0.0, 0.11536157131195068, 1.0371984243392944, 0.39898020029067993, 0.0, 0.0, 1.6553370952606201, 0.0, 0.0, 0.0, 0.06178253889083862, 0.3000081777572632, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 2.7896695137023926, 2.760366439819336, 0.0, 0.0, 0.0, 0.7102325558662415, 0.7437833547592163, 0.4323207139968872, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.374617338180542, 0.0, 0.0, 0.0, 0.0, 0.6993232369422913, 0.0, 0.0, 0.1717892289161682, 0.0, 0.33441710472106934,	[60.0, 77 93.0, 60 76.0, 92 58.0, 74 90.0, 61 77.0, 93 60.0, 77 95.0, 64 81.0, 99 61.0, 79 97.0, 58 75.0, 93 57.0, 74 93.0, 51 68.0, 87 55.0, 70 90.0, 53 68.0, 88 51.0, 67 86.0, 52 68.0, 87 55.0, 69 90.0, 55 65.0, 90 54.0, 64 89.0, 55 69.0, 93 51.0, 68 90.0, 54 73.0, 95 63.0, 80 100.0, 87 104.0, 123 91.0, 108

id	image	label	deep_features	image_arr	
			1.340576171875, 0.0, 0.0, 0.29912716150283813, 0.0, 0.0, 0.9639986753463745, 0.0, 0.0, 2.7766482830047607, 0.0, 0.0, 0.4361794590950012, 0.49407410621643066, 0.803188145160675, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 2.448436737060547, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, ...]	127.0, 66 84.0, 102 57.0, 74 93.0, 53 71.0, 89 53.0, 71 89.0, 59 77.0, 95 61.0, 78 96.0, 56 74.0, 92 61.0, 77 96.0, 58 72.0, 92 50.0, 66 82.0, 52.0,	
33	103		cat	[1.41298246383667, 0.0, 0.0, 0.0, 0.0, 0.0, 7.674832820892334, 0.05159562826156616, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 1.5478999614715576, 0.5137262344360352, 0.028207898139953613, 0.0, 0.9863735437393188, 0.9676815271377563, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 1.169801950454712, 0.0, 0.0, 0.4027388095855713, 0.0, 0.0, 0.0, 2.268123149871826, 1.2164851427078247, 1.3461565971374512, 0.0, 0.0, 0.4124460816383362, 0.0, 0.0, 0.0, 0.0, 0.8344213366508484, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.6799308061599731, 0.0, 0.0, 0.0, 0.0, 0.00839465856552124, 0.0, 0.0, 2.0292913913726807, 3.000784158706665, 0.0, 0.6643027067184448, 0.0, 0.0, 0.0, 0.0, 0.14194071292877197, 1.4126214981079102,	[255.0, 255 255.0, 255 255.0, 255 255.0, 255 255.0, 255 255.0, 255 255.0, 255 255.0, 255 255.0, 255 255.0, 254 255.0, 255 255.0, 250 244.0, 239 206.0, 150 100.0, 174 112.0, 60 156.0, 114 69.0, 179 157.0, 124 185.0, 168 141.0, 178 158.0, 126 147.0, 122 89.0, 159 133.0, 101 132.0, 105 73.0, 113 85.0, 53 111.0, 82 50.0, 115 86.0, 53 131.0, 102 67.0, 170 144.0, 105


id	image	label	deep_features	image_arr
			0.0, 0.0, 1.4354934692382812, 0.0, 0.0, 0.0, 1.402580976486206, 1.894726037979126, 0.0, 0.6501275300979614, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 2.321331024169922, 2.146651268005371, 2.1256861686706543, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, ...]	202.0, 182 153.0, 140 138.0, 132 17.0, 27 53.0, 0.0, 3 36.0, 28 35.0, 59 143.0, 144 143.0, 193 189.0, 179 183.0, 186 181.0, 255 255.0, 255 255.0,
			[0.6824313402175903, 0.5678311586380005, 0.0, 2.3212428092956543, 0.0, 0.0, 5.310383319854736, 0.0, 0.0, 0.0, 0.0, 0.0, 0.5474467873573303, 1.4924179315567017, 0.6788827180862427, 2.3803253173828125, 0.5100353956222534, 0.0, 0.0, 2.0349016189575195, 0.3102160692214966, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 1.0827817916870117, 0.0, 0.0, 0.0, 0.5962026119232178, 0.34970176219940186, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 1.813741683959961, 0.0, 2.9400558471679688, 0.0, 0.0, 0.5743486881256104, 0.0, 0.0, 0.6661292910575867, 0.0, 0.0, 1.0728946924209595, 0.16937637329101562, 0.0, 0.0, 0.0, 0.0, 0.0, 0.9945176243782043, 1.0907260179519653,	[245.0, 250 244.0, 245 249.0, 244 246.0, 250 245.0, 247 250.0, 245 250.0, 251 243.0, 252 253.0, 247 196.0, 197 192.0, 107 107.0, 105 108.0, 108 108.0, 118 118.0, 120 125.0, 122 125.0, 124 119.0, 123 136.0, 128 133.0, 140 132.0, 136 123.0, 118 122.0, 138 133.0, 137 146.0, 141 145.0, 147 142.0, 146 153.0, 146 149.0, 152 142.0, 141 128.0, 118 117.0, 142 132.0, 131 158.0, 147 146.0, 137 127.0, 127 143.0, 135 137.0, 164
34 104		automobile		

id	image	label	deep_features	image_arr
				155.0, 155.0,
				156.0, 145.0,
				143.0, 155.0,
			1.9270356893539429,	140.0, 137.0,
			0.0,	167.0, 157.0,
			1.2588958740234375,	155.0, 237.0,
			0.0,	237.0, 239.0,
			0.18147265911102295,	255.0, 255.0,
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	255.0, 255.0,
			0.0, 0.0, 0.0, 0.0, 0.0, ...]	255.0, 255.0,
				140.0, 145.0,
				140.0, 142.0,
			[0.0, 0.0, 0.0,	[255.0, 255.0,
			3.4514405727386475,	255.0, 252.0,
			1.1500542163848877,	252.0, 252.0,
			0.0,	241.0, 241.0,
			7.8064165115356445,	239.0, 199.0,
			0.0,	201.0, 196.0,
			0.18605613708496094,	161.0, 160.0,
			1.835434913635254,	162.0, 112.0,
			0.15695720911026, 0.0,	112.0, 90.0,
			2.9320051670074463,	112.0, 116.0,
			0.0,	63.0, 67.0,
			0.6278196573257446,	71.0, 46.0,
			2.737157106399536,	80.0, 81.0,
			0.9312412142753601,	78.0, 171.0,
			0.0, 0.0,	171.0, 172.0,
			1.6554535627365112,	235.0, 236.0,
			0.0, 0.0, 0.0,	234.0, 251.0,
			1.1337242126464844,	251.0, 251.0,
			0.0, 0.0,	251.0, 251.0,
35	105		automobile	0.4172402620315552,
			0.0, 0.0,	251.0, 252.0,
			2.4585447311401367,	252.0, 252.0,
			0.0, 0.157953143119812,	252.0, 252.0,
			0.998105525970459,	252.0, 252.0,
			0.5155295729637146,	252.0, 252.0,
			0.0, 0.0, 0.0, 0.0, 0.0,	252.0, 251.0,
			1.0061575174331665,	251.0, 251.0,
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	252.0, 252.0,
			0.0, 0.0,	252.0, 252.0,
			2.1909637451171875,	252.0, 252.0,
			0.0, 0.0, 0.0,	252.0, 252.0,
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			0.0,	252.0, 252.0,
			2.0387535095214844,	252.0, 252.0,
			0.0, 0.0,	252.0, 252.0,
			0.3185160756111145,	252.0, 252.0,
			1.5464694499969482,	252.0, 252.0,
			0.0,	252.0, 252.0,

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36	106		cat	[0.9992640614509583, 0.0, 0.0, 0.0, 0.0, 0.8851996660232544, 7.102294921875, 0.3789888024330139, 0.0, 0.0, 0.48655378818511963, 0.0, 0.0, 2.0298852920532227, 0.0, 0.9385411739349365, 1.902332067489624, 2.0757153034210205, 0.9397251009941101, 0.614499568939209, 0.0, 0.7080919146537781, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.02060931921005249, 0.0, 0.0, 0.0, 0.017316460609436035, 0.0, 0.0, 1.451915979385376, 0.9212961196899414, 0.6304665207862854, 0.0, 1.2862735986709595, 0.568295955657959, 1.7658882141113281, 0.0, 0.28098487854003906, 0.0, 2.8295321464538574, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.956726610660553, 0.0,	[51.0, 66 63.0, 48 64.0, 61 48.0, 63 60.0, 49 63.0, 60 50.0, 62 60.0, 52 64.0, 62 52.0, 64 62.0, 50 64.0, 62 47.0, 65 62.0, 59 69.0, 67 80.0, 86 85.0, 59 68.0, 65 48.0, 60 60.0, 44 60.0, 60 46.0, 64 62.0, 48 61.0, 59 51.0, 61 59.0, 47 59.0, 57 45.0, 57 55.0, 44 57.0, 54 42.0, 54 52.0, 43 55.0, 53 41.0, 53 51.0, 39 51.0, 49


id	image	label	deep_features	image_arr
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37	113	bird	[1.4740145206451416, 0.0, 0.0, 0.21957027912139893, 0.49430710077285767, 0.0, 8.676929473876953, 0.0, 0.0, 0.0, 0.0, 0.0, 1.1411199569702148, 0.0, 0.0, 0.0, 0.8374884724617004, 0.0, 0.0, 0.0, 0.0, 0.47697848081588745, 0.0, 0.0, 0.0, 1.0298348665237427, 0.0, 0.3002341389656067, 0.0, 0.0, 0.0, 0.2731086015701294, 2.0745110511779785, 0.0, 0.0, 0.6911351680755615, 0.5146662592887878, 0.0, 2.032531261444092, 1.2148940563201904, 2.0325074195861816, 0.0, 0.0, 1.4798698425292969, 0.0, 0.0, 0.20016276836395264, 0.0, 3.415660858154297, 0.9207821488380432, 0.0, 1.0393249988555908,	[114.0, 117 122.0, 117 120.0, 125 119.0, 122 127.0, 121 124.0, 129 124.0, 127 131.0, 127 129.0, 132 129.0, 130 132.0, 130 131.0, 133 130.0, 131 133.0, 131 132.0, 133 135.0, 132 133.0, 135 131.0, 132 134.0, 131 132.0, 134 131.0, 132 134.0, 131 132.0, 134 129.0, 131 132.0, 126 130.0, 131 124.0, 130 130.0, 123 128.0, 129 123.0, 125 126.0, 124


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38	114		automobile	[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 7.495393753051758, 0.0, 0.0, 0.0, 1.0231702327728271, 0.6514467597007751, 0.08096927404403687, 0.0, 0.0, 0.050706446170806885, 2.976579427719116, 0.027893543243408203, 0.0, 0.6953920125961304, 0.0, 0.14710938930511475, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 1.9961615800857544, 0.0, 0.0, 0.3946497440338135, 0.0, 0.0, 0.0, 0.0, 0.22641527652740479, 1.1044557094573975, 0.0, 0.0, 1.2992435693740845, 0.0, 0.0, 0.0, 1.6737546920776367, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 2.9774770736694336,	[199.0, 205 210.0, 195 205.0, 206 193.0, 203 204.0, 190 200.0, 201 188.0, 198 198.0, 187 197.0, 198 187.0, 197 197.0, 184 194.0, 195 183.0, 193 193.0, 182 192.0, 192 180.0, 190 190.0, 178 188.0, 187 178.0, 189 181.0, 176 187.0, 179 177.0, 188 180.0, 177 188.0, 180 175.0, 186 178.0, 174 185.0, 177 174.0, 185 177.0, 174 185.0, 177

id	image	label	deep_features	image_arr
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				179.0, 182
				189.0, 182
				188.0, 195
				188.0, 193
			0.0, 0.0, 0.0, 0.0, 0.0,	200.0, 193
			1.0019265413284302,	199.0, 206
			0.0, 0.0,	199.0, 202
			3.984459638595581, 0.0,	209.0, 202
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	205.0, 212
			0.13007807731628418,	205.0, 209
			0.619759202003479, 0.0,	216.0, 209
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	212.0, 220
			0.9156057834625244,	213.0, 216
			1.6640145778656006,	225.0, 222
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			...]	227.0, 221
				230.0, 227
				193.0, 203
				204.0, 190
			[0.865088939666748,	[95.0, 87
			0.45961833000183105,	72.0, 96
			0.0,	88.0, 72
			0.45740795135498047,	104.0, 96
			0.29353994131088257,	81.0, 101
			0.23849081993103027,	93.0, 77
			10.043315887451172,	102.0, 94
			0.0, 0.0, 0.0,	79.0, 108
			0.17758649587631226,	99.0, 84
			0.0,	112.0, 104
			0.07625716924667358,	89.0, 115
			0.0, 0.0,	106.0, 89
			1.9915218353271484,	118.0, 104
			0.2711206078529358,	84.0, 125
			0.35192686319351196,	111.0, 91
			0.0,	131.0, 117
			0.5995529890060425,	97.0, 129
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	116.0, 95
			0.0,	124.0, 113
			0.003572404384613037,	93.0, 129
			0.0, 0.0, 0.0,	118.0, 98
			0.7772471904754639,	130.0, 119
			1.5522041320800781,	99.0, 128
			0.0, 0.0,	117.0, 97
			0.9252671599388123,	128.0, 114
			0.0,	95.0, 130
			0.7874072790145874,	115.0, 96
			0.29897087812423706,	134.0, 119
			2.1414756774902344,	100.0, 128
			0.0, 0.0, 0.0, 0.0,	113.0, 94
			0.6038786172866821,	129.0, 115
39	115		cat	





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41	121	cat	[0.5906025171279907, 0.758104681968689, 0.0, 0.0, 0.0, 0.5136756896972656, 7.217622756958008, 0.06585997343063354, 0.0, 0.0, 0.0, 0.0, 0.0, 0.4711341857910156, 0.0, 0.7390326261520386, 0.5137221813201904, 1.1015225648880005, 0.0, 0.7547110319137573, 0.0, 1.7489495277404785, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.2937930226325989, 0.0, 0.0, 1.6491501331329346, 0.852136492729187, 0.0, 0.0, 1.0212339162826538, 0.0, 1.6693955659866333, 0.9487876296043396, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	[13.0, 9.0, 8.0, 12.0, 9.0, 7.0, 13.0, 8.0, 7.0, 15.0, 8.0, 8.0, 16.0, 9.0, 9.0, 16.0, 10.0, 9.0, 17.0, 10.0, 9.0, 18.0, 11.0, 9.0, 19.0, 11.0, 9.0, 18.0, 12.0, 9.0, 21.0, 19.0, 17.0, 22.0, 18.0, 17.0, 19.0, 13.0, 10.0, 20.0, 12.0, 9.0, 20.0, 13.0, 11.0, 19.0, 12.0, 10.0, 20.0, 13.0, 10.0, 21.0, 13.0, 11.0, 21.0, 14.0, 11.0, 21.0, 14.0, 12.0, 22.0, 14.0]


id	image	label	deep_features	image_arr
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			0.43132442235946655, 1.1614625453948975,	25.0, 18
			2.056861400604248, 0.0, 0.0, 0.0,	14.0, 25
			0.32037782669067383, 0.0,	18.0, 15
			3.5559144020080566, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	20.0, 14
			0.2114161252975464, 0.6756669282913208,	10.0, 19
			0.0, 0.0, 0.0, 0.0, 0.0, 0.22151601314544678,	12.0, 9
			0.0, 0.0, 0.0, 0.0, 2.136749267578125, 0.0,	19.0, 13
			0.9905837774276733, 0.0, 0.0, 0.0, 0.0,	10.0, 22
			0.06547576189041138, 0.0, ...]	16.0, 11
				28.0, 22
				16.0, 31
				24.0, 17
				31.0, 23
				17.0, 30
				22.0, 17
				15.0, 8.0, 6
				14.0,
			[0.0,	[51.0, 71
			0.5649868249893188, 0.0,	34.0, 47
			1.6784172058105469, 0.0, 0.0,	66.0, 33
			8.810892105102539, 0.0, 0.0, 0.0, 0.0, 0.0,	40.0, 66
			0.7568671107292175, 0.0, 0.0,	30.0, 64
			2.462254047393799, 0.0, 0.0, 0.0,	86.0, 51
			3.214298725128174, 0.0, 0.01624518632888794,	68.0, 91
			0.897061824798584, 0.03202551603317261,	55.0, 53
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	78.0, 36
			1.490074872970581, 0.0, 0.0, 0.0, 0.0,	43.0, 72
			0.7339360117912292, 1.274219036102295, 0.0,	30.0, 39
			0.0, 0.0, 0.9853801131248474,	65.0, 29
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	57.0, 81
			1.206678032875061, 0.776797354221344, 0.0,	42.0, 89
			0.0, 0.0, 0.0, 0.0, 0.0, 1.5777541399002075,	112.0, 68
			0.0, 0.0,	104.0, 132
				85.0, 148
				155.0, 135
				158.0, 159
				149.0, 150
				155.0, 150
				153.0, 153
				147.0, 128
				131.0, 124
				107.0, 107
				100.0, 86
				88.0, 75
				86.0, 88
				76.0, 77
				79.0, 69
42 122		automobile		


id	image	label	deep_features	image_arr
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				106.0, 148
				144.0, 129
			0.20649254322052002,	134.0, 129
			0.0, 0.0, 0.0, 0.0, 0.0,	109.0, 111
			2.922502040863037, 0.0,	116.0, 105
			0.0, 3.330312728881836,	100.0, 110
			0.0, 0.0, 0.0,	98.0, 63
			2.3754537105560303,	84.0, 62
			0.0, 0.0, 0.0,	26.0, 53
			0.6501256227493286,	22.0, 23
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	52.0, 29
			0.0,	24.0, 51
			0.09178227186203003,	48.0, 65
			0.15374785661697388,	87.0, 62
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	152.0, 157
			0.0, ...]	147.0, 208
				208.0, 200
				45.0, 65
				29.0, 46.0,
			[0.0,	[205.0, 227
			0.13475626707077026,	120.0, 205
			0.0,	227.0, 120
			0.5779193639755249,	206.0, 228
			0.656159520149231, 0.0,	121.0, 206
			8.504801750183105, 0.0,	228.0, 121
			0.0,	208.0, 230
			0.8962638974189758,	121.0, 210
			0.0, 0.0,	232.0, 121
			1.9187800884246826,	209.0, 231
			0.9701336622238159,	121.0, 209
			0.0,	231.0, 120
			1.6299678087234497,	210.0, 232
			2.2060470581054688,	121.0, 213
			0.0,	235.0, 125
43	123	bird	0.7889658212661743,	212.0, 234
			1.0435776710510254,	125.0, 210
			0.0,	232.0, 124
			0.9667524099349976,	210.0, 232
			0.0, 1.008937120437622,	123.0, 210
			0.0, 1.246661901473999,	232.0, 123
			0.0, 0.0, 0.0, 0.0,	210.0, 232
			1.4733268022537231,	123.0, 210
			0.36259597539901733,	232.0, 121
			1.2135413885116577,	211.0, 233
			0.0, 0.0,	122.0, 212
			1.8645427227020264,	233.0, 127
			0.0, 0.0, 0.0,	211.0, 231
			3.137573719024658, 0.0,	129.0, 210
			0.0, 0.0,	230.0, 130
			0.8639799356460571,	210.0, 230
			0.7918463349342346,	131.0, 208


id	image	label	deep_features	image_arr
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44	127	cat	[0.0, 0.0, 0.43821263313293457, 0.0, 0.0, 0.0, 9.265909194946289, 0.0, 0.0, 0.0, 0.0, 0.0, 1.7711966037750244, 0.3507901430130005, 0.0, 0.13416332006454468, 0.5755171775817871, 1.6237123012542725, 0.0, 0.10148721933364868, 0.0, 2.230674982070923, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 2.4950122833251953, 0.7301335334777832, 0.0, 0.0, 1.5412776470184326, 1.3853346109390259, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	[71.0, 56 45.0, 73 58.0, 47 64.0, 50 39.0, 67 54.0, 45 74.0, 61 54.0, 91 76.0, 67 87.0, 70 60.0, 108 88.0, 73 108.0, 87 71.0, 83 64.0, 55 95.0, 73 65.0, 110 82.0, 73 108.0, 81 80.0, 137 117.0, 123 131.0, 106 109.0, 142 102.0, 93


id	image	label	deep_features	image_arr
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				77.0, 127
				89.0, 78
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	120.0, 88
			0.0, 0.0,	84.0, 96
			0.9755348563194275,	74.0, 64
			0.0,	102.0, 80
			2.3711724281311035,	70.0, 102
			0.0, 0.0, 0.0, 0.0, 0.0,	81.0, 74
			2.396056652069092, 0.0,	102.0, 82
			0.0,	76.0, 101
			1.3059558868408203,	81.0, 76
			0.0, 0.0, 0.0,	93.0, 76
			1.234269142150879, 0.0,	68.0, 79
			0.0, 0.0, 0.0, 0.0,	65.0, 52
			0.039730191230773926,	70.0, 53
			0.0, 0.0, 0.0, 0.0, 0.0,	42.0, 48
			4.837508678436279,	34.0, 29
			2.0282466411590576,	20.0, 14
			1.6652239561080933,	14.0, 4.0, 3
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	4.0, 0.0, 0
			...]	0.0, 1.0, 1
				1.0, 81
				68.0, 59
				74.0,
			[0.0, 0.0,	[86.0, 18
			0.07171213626861572,	39.0, 84
			0.7406204342842102,	18.0, 38
			0.0, 0.0,	82.0, 16
			11.292401313781738,	36.0, 81
			1.664665699005127, 0.0,	14.0, 33
			0.4472498297691345,	90.0, 21
			0.0, 0.0,	37.0, 95
			1.4187309741973877,	27.0, 42
			0.0, 0.0,	99.0, 30
			0.6082517504692078,	45.0, 93
			0.10074871778488159,	25.0, 39
			1.378267526626587, 0.0,	84.0, 18
			0.0, 0.0,	34.0, 83
			0.8788433074951172,	19.0, 36
			0.0, 0.0,	84.0, 18
			0.39517271518707275,	36.0, 87
			1.3977406024932861,	16.0, 36
			1.2648056745529175,	90.0, 17
			1.6862139701843262,	37.0, 88
			0.0, 0.0, 0.0,	20.0, 39
			0.8557038307189941,	88.0, 20
			0.26653438806533813,	39.0, 89
			0.0, 0.0,	20.0, 39
			0.0242806077003479,	89.0, 19
			0.0, 0.0,	38.0, 89
			1.7804811000823975,	19.0, 38
45	128		dog	

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46 129		bird	[0.3471564054489136, 0.0, 0.0, 0.908190131187439, 0.0, 0.5290343761444092, 8.001782417297363, 0.0, 1.8719031810760498, 0.19924086332321167, 0.0, 0.0, 0.0, 0.0, 1.3881109952926636, 0.3104691505432129, 2.4086694717407227, 0.9639390707015991, 0.44805121421813965, 0.5524709224700928, 0.0, 1.3916977643966675, 0.02457129955291748, 0.9705417156219482, 0.0, 1.5191586017608643,	[149.0, 155 197.0, 156 161.0, 207 170.0, 185 225.0, 162 167.0, 205 164.0, 165 200.0, 160 163.0, 196 145.0, 150 174.0, 135 139.0, 157 148.0, 142 164.0, 175 176.0, 211 178.0, 185 224.0, 175 184.0, 228 175.0, 185 228.0, 175


id	image	label	deep_features	image_arr
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47 131		automobile	[0.0, 0.0, 0.0, 1.4018011093139648, 0.0, 0.0, 8.567556381225586, 0.0, 0.0, 0.0, 0.5667043924331665, 0.0, 1.7495994567871094, 0.36568158864974976, 0.0, 0.74317467212677, 1.3841712474822998,	241.0, 241 243.0, 242 242.0, 244 243.0, 243 245.0, 244 244.0, 245 246.0, 246 244.0, 246 246.0, 244 247.0, 247 245.0, 248


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			0.4814053177833557,	251.0, 252
			0.0, 1.259308099746704,	252.0, 252
			0.0,	252.0, 252
			0.6073615550994873,	252.0, 251
			0.0, 0.0, 0.0, 0.0,	251.0, 251
			0.8254381418228149,	252.0, 252
			2.3749165534973145,	252.0, 253
			0.0, 0.0,	253.0, 253
			0.6835182905197144,	253.0, 253
			0.0, 0.0, 0.0, 0.0, 0.0,	253.0, 253
			0.7474749684333801,	253.0, 253
			1.3947858810424805,	253.0, 253
			0.0,	253.0, 253
			1.5765645503997803,	253.0, 253
			0.0, 0.0,	252.0, 252
			1.6577118635177612,	252.0, 252
			0.3030080795288086,	252.0, 252
			0.7326929569244385,	251.0, 251
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	251.0, 251
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	251.0, 251
			1.2180945873260498,	249.0, 249
			0.0, 0.0,	249.0, 249
			0.3006036877632141,	248.0, 248
			0.0, 0.0,	246.0, 247
			1.8287620544433594,	247.0, 247
			0.0, 0.0, 0.0,	247.0, 246
			1.066894292831421, 0.0,	246.0, 246
			0.0, 0.0,	247.0, 246
			0.16662216186523438,	248.0, 247
			1.8554637432098389,	246.0, 248
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	247.0, 246
			1.6455254554748535,	248.0, 247
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	248.0, 248
			0.40892159938812256,	250.0, 249
			0.0, ...]	
48 134		automobile	[0.04108554124832153,	[224.0, 221
			0.0, 0.0,	214.0, 234
			0.17348146438598633,	237.0, 235
			0.0,	236.0, 236
			0.33475351333618164,	231.0, 139
			8.279243469238281, 0.0,	132.0, 128
			0.0, 0.0,	80.0, 78
			0.38850486278533936,	73.0, 95
			0.09596174955368042,	98.0, 90
			1.9813601970672607,	200.0, 198
			0.0,	191.0, 217
			0.8611785173416138,	213.0, 204


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49 135		bird	[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 11.111308097839355, 0.0, 0.0, 0.0, 0.0, 0.0, 1.4226514101028442, 0.0, 0.0, 0.0, 0.0, 0.5904909372329712, 0.0, 0.0, 0.0,	[170.0, 156 155.0, 186 171.0, 168 195.0, 179 175.0, 202 184.0, 179 200.0, 181 175.0, 193


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				183.0, 164
				161.0, 170
				153.0, 154
				161.0, 145
			0.2074669599533081,	146.0, 156
			1.5719244480133057,	140.0, 141
			0.0, 0.0, 0.0, 0.0,	161.0, 145
			1.1936625242233276,	146.0, 165
			0.0, 0.0, 0.0,	149.0, 150
			0.4498289227485657,	170.0, 154
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	155.0, 172
			2.914696216583252,	157.0, 157
			3.710513114929199, 0.0,	166.0, 154
			0.0, 0.0, 0.0, 0.0, 0.0,	153.0, 155
			0.4218790531158447,	145.0, 143
			0.0,	141.0, 131
			0.7970868349075317,	129.0, 115
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	111.0, 105
			0.0, 0.0, 0.0,	110.0, 104
			0.4971660077571869,	101.0, 115
			0.0, 0.0, 0.0, 0.0,	114.0, 111
			0.3112297058105469,	113.0, 105
			0.5738608837127686,	106.0, 108
			1.5716922283172607,	104.0, 103
			2.7538695335388184,	110.0, 105
			0.0, 0.0, 0.0, 0.0, 0.0,	104.0, 113
			1.1083322763442993,	108.0, 106
			0.0, 0.0,	119.0, 113
			1.8443474769592285,	110.0, 127
			0.0, 0.0, 0.0,	119.0, 116
			0.8357642292976379,	133.0, 124
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	120.0, 141
			0.0, 0.0, 0.0, 0.0, 0.0,	130.0, 126
			2.522960662841797, 0.0,	146.0, 134
			0.5971618890762329,	130.0, 148
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	134.0, 130
			...]	145.0, 130
				127.0, 138
				123.0, 120
				179.0, 165
				164.0, 195
			[0.0, 0.0, 0.0, 0.0, 0.0,	[105.0, 107
			0.0,	44.0, 115
			10.724889755249023,	110.0, 43
			0.0, 0.0, 0.0, 0.0, 0.0,	115.0, 116
			2.5812482833862305,	41.0, 107
			0.09008967876434326,	109.0, 35
			0.0, 0.0,	106.0, 108
			1.1310971975326538,	35.0, 98
			0.0, 0.0, 0.0, 0.0,	103.0, 35
50 138		bird		


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				42.0, 110
				113.0, 44
			1.3276875019073486,	119.0, 123
			0.44350677728652954,	46.0, 121
			0.0, 0.0,	129.0, 45
			0.05667388439178467,	104.0, 117
			1.0036044120788574,	38.0, 104
			0.0, 0.0, 0.0, 0.0,	113.0, 33
			0.5017260909080505,	96.0, 103
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	28.0, 88
			3.1045756340026855,	94.0, 22
			2.6856884956359863,	114.0, 126
			0.0, 0.0, 0.0,	41.0, 117
			0.3549547791481018,	129.0, 46
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	112.0, 124
			0.0, 0.0, 0.0, 0.0, 0.0,	46.0, 108
			1.105607509613037,	115.0, 45
			0.4346359372138977,	100.0, 98
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	37.0, 105
			1.1185557842254639,	101.0, 41
			0.39464646577835083,	123.0, 127
			0.6935378909111023,	46.0, 108
			2.269882917404175, 0.0,	114.0, 36
			0.0, 0.0, 0.0, 0.0,	96.0, 93
			1.1894582509994507,	29.0, 112
			0.0, 0.0,	111.0, 47
			2.628931999206543, 0.0,	106.0, 112
			0.0, 0.0,	45.0, 90
			2.0801119804382324,	99.0, 25
			0.7216599583625793,	89.0, 100
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	27.0, 106
			0.0, 0.0, 0.0, 0.0,	116.0, 46
			1.206860065460205,	102.0, 103
			0.19411605596542358,	45.0, 92
			0.7885582447052002,	90.0, 33
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	103.0, 102
			...]	42.0, 126
				122.0, 74
				111.0, 115
				49.0, 115
51	141	dog	[0.0, 0.0, 0.0, 0.0,	[159.0, 196
			0.27141350507736206,	137.0, 161
			0.0, 9.71152400970459,	205.0, 138
			0.0, 0.0, 0.0, 0.0, 0.0,	157.0, 198
			1.3631927967071533,	135.0, 165
			1.535865306854248, 0.0,	203.0, 145
			0.0, 0.0,	170.0, 210
			0.5183665156364441,	155.0, 167
			0.5095061659812927,	209.0, 145
			0.0, 0.0,	153.0, 196

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				197.0, 125
				167.0, 206
				143.0, 171
				210.0, 152
			1.3702690601348877,	162.0, 204
			0.0, 0.0, 0.0, 0.0,	141.0, 157
			0.20544344186782837,	200.0, 131
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	162.0, 204
			0.0, 0.0, 0.0, 0.0, 0.0,	136.0, 166
			2.6404168605804443,	209.0, 138
			3.0000853538513184,	170.0, 213
			0.0, 0.0, 0.0,	146.0, 167
			1.1390992403030396,	207.0, 150
			1.0473982095718384,	166.0, 206
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	150.0, 164
			0.0, 0.0,	204.0, 148
			0.8696067929267883,	163.0, 203
			0.586219310760498, 0.0,	147.0, 167
			0.0, 0.0,	207.0, 151
			0.41424280405044556,	168.0, 206
			0.0, 0.0, 0.0, 0.0, 0.0,	148.0, 184
			0.7873923182487488,	221.0, 160
			0.33036619424819946,	176.0, 214
			0.3249703049659729,	149.0, 171
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	209.0, 141
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	182.0, 217
			0.4021962881088257,	157.0, 193
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	223.0, 175
			0.36908435821533203,	189.0, 219
			0.0, 0.0, 0.0, 0.0,	168.0, 176
			1.9088892936706543,	208.0, 153
			0.0,	178.0, 208
			1.3782243728637695,	152.0, 184
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	213.0, 159
			...]	186.0, 220
				170.0, 196
				223.0, 182
				148.0, 198
				120.0, 156
			[0.0,	[76.0, 87
			0.9288817644119263,	83.0, 100
			0.0, 0.0, 0.0, 0.0,	109.0, 103
			8.983638763427734, 0.0,	95.0, 103
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	98.0, 86
			0.0,	100.0, 95
			1.1749904155731201,	105.0, 118
			0.0, 0.0, 0.0, 0.0, 0.0,	116.0, 118
			0.8372559547424316,	129.0, 121
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	121.0, 132
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	120.0, 122
52	143		cat	


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				116.0, 98
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				125.0, 90
				12.0, 128
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			0.0, 0.0, 0.0,	11.0, 100
			0.42093366384506226,	68.0, 19
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	79.0, 81
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	72.0, 58
			0.2936345934867859,	61.0, 52
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	35.0, 33
			0.0, 0.0,	20.0, 44
			0.14378994703292847,	44.0, 32
			0.0,	46.0, 47
			1.8404462337493896,	41.0, 42
			0.0, 0.0,	48.0, 45
			0.08624780178070068,	42.0, 42
			0.0, 0.0,	45.0, 79
			5.1557159423828125,	67.0, 57
			0.0, 0.0,	61.0, 56
			1.392061471939087, 0.0,	51.0, 24
			0.0, 0.0,	22.0, 25
			0.3271920680999756,	5.0, 6.0, 4
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	6.0, 5.0, 6
			0.0, 0.0, 0.0, 0.0, 0.0,	15.0, 15
			4.050395965576172,	15.0, 69
			0.9170302152633667,	74.0, 72
			0.9449965953826904,	56.0, 55
			0.5838915705680847,	52.0, 24
			0.0, 0.0, 0.0, 0.0, 0.0, ...]	17.0, 12
				90.0, 90
				80.0, 148
				152.0, 143
				52.0, 56
				52.0, 92.0,
			[0.0, 0.0, 0.0, 0.0, 0.0,	[42.0, 28
			0.0,	15.0, 48
			11.706192970275879,	32.0, 17
			0.0, 0.0, 0.0, 0.0, 0.0,	53.0, 35
			0.6312897801399231,	18.0, 45
			1.3077147006988525,	31.0, 15
			0.0,	41.0, 30
			1.7832841873168945,	11.0, 35
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	24.0, 5
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	35.0, 22
			0.0, 0.0, 0.0,	9.0, 26
			2.002077341079712,	17.0, 9
			1.3313311338424683,	23.0, 18
			0.0, 0.0, 0.0, 0.0, 0.0,	9.0, 36
53	147		bird	

id	image	label	deep_features	image_arr
				26.0, 15
				58.0, 52
			1.270978569984436,	34.0, 153
			1.4474854469299316,	154.0, 129
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	219.0, 221
			0.0, 0.0,	188.0, 186
			0.6889179348945618,	185.0, 153
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	164.0, 161
			0.0,	130.0, 188
			0.33360743522644043,	182.0, 151
			0.0, 0.0,	231.0, 225
			0.16976183652877808,	195.0, 203
			0.6022835373878479,	197.0, 169
			0.0, 0.0,	133.0, 125
			0.6420193910598755,	101.0, 112
			0.0,	104.0, 81
			0.6840111017227173,	84.0, 73
			2.58170223236084, 0.0,	56.0, 31
			0.0,	18.0, 12
			0.6212441325187683,	18.0, 11
			0.0, 0.0,	12.0, 14
			1.215590238571167,	12.0, 10
			0.8072022199630737,	19.0, 18
			0.0, 2.243919849395752,	11.0, 40
			0.0, 0.0, 0.0,	37.0, 27
			2.177504301071167, 0.0,	30.0, 27
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	19.0, 14
			0.6381085515022278,	10.0, 6
			0.0, 0.0, 0.0,	23.0, 19
			1.2285951375961304,	14.0, 26
			1.0186842679977417,	21.0, 12
			0.08543604612350464,	29.0, 21
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	15.0, 24
			...]	19.0, 15
				38.0, 22
				11.0, 47.0,
54 148		dog	[0.0, 0.0, 0.0, 0.0, 0.0,	[14.0, 12
			0.0, 9.11507511138916,	11.0, 6.0, 3
			0.0, 0.0, 0.0, 0.0, 0.0,	3.0, 7.0, 4
			1.7503695487976074,	3.0, 20
			0.0, 0.0,	17.0, 16
			1.375339150428772, 0.0,	35.0, 33
			0.2451356053352356,	30.0, 35
			0.09579092264175415,	33.0, 30
			0.0, 0.0,	18.0, 16
			0.5152329206466675,	13.0, 9.0, 6
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	4.0, 17
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	11.0, 8
			0.0, 0.0, 0.0, 0.0,	33.0, 26
			3.364342212677002,	22.0, 86
			2.1003036499023438,	78.0, 74
			0.0, 0.0,	113.0, 105


id	image	label	deep_features	image_arr
				101.0, 81
				73.0, 69
				31.0, 23
				19.0, 23
				15.0, 11
			0.6678727865219116,	17.0, 10
			0.0, 0.0, 0.0, 0.0, 0.0,	6.0, 13.0, 6
			0.9913725852966309,	3.0, 8.0, 5
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	6.0, 9.0, 6
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	10.0, 24
			0.0, 0.0, 0.0, 0.0, 0.0,	18.0, 20
			0.6692296266555786,	35.0, 25
			0.0, 0.0, 0.0, 0.0, 0.0,	25.0, 44
			2.403637170791626, 0.0,	31.0, 29
			0.0,	48.0, 35
			0.4879159927368164,	34.0, 21
			0.0, 0.0, 0.0,	11.0, 12
			1.2732923030853271,	7.0, 2.0, 5
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	4.0, 2.0, 7
			0.0, 0.0, 0.0, 0.0, 0.0,	3.0, 4.0, 3
			5.157801151275635,	3.0, 3.0, 1
			1.3222322463989258,	5.0, 1.0, 2
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	12.0, 1.0, 2
			0.0, ...]	34.0, 16
				8.0, 68
				47.0, 24
				21.0, 12
				9.0, 15.0,
			[0.0, 0.0,	[104.0, 92
			0.1618403196334839,	108.0, 98
			0.0, 0.0, 0.0,	87.0, 102
			8.668997764587402, 0.0,	110.0, 99
			0.0, 0.0, 0.0, 0.0,	114.0, 121
			0.3575860857963562,	110.0, 124
			1.3362290859222412,	120.0, 107
			0.0,	120.0, 114
			0.9129351377487183,	102.0, 113
			1.1011178493499756,	95.0, 86
			1.5343823432922363,	96.0, 74
			1.5411227941513062,	69.0, 78
			0.0, 0.0,	64.0, 60
			2.485654354095459, 0.0,	69.0, 68
			0.0, 0.0, 0.0, 0.0,	58.0, 71
			0.28123170137405396,	63.0, 52
			0.0, 0.0, 0.0,	66.0, 58
			0.8267866373062134,	47.0, 61
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	54.0, 43
			1.7482495307922363,	57.0, 49
			2.15383243560791, 0.0,	38.0, 51
			0.0,	47.0, 36
			0.38111674785614014,	47.0, 45
			0.0, 0.0, 0.0,	37.0, 51
55 149		bird		


id	image	label	deep_features	image_arr
				41.0, 34
			0.18809032440185547,	48.0, 73
			0.0,	59.0, 69
			1.7699978351593018,	149.0, 129
			0.1722959280014038,	133.0, 164
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	146.0, 148
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	166.0, 148
			0.0, 0.0,	149.0, 156
			0.707595944404602, 0.0,	134.0, 137
			4.221768379211426, 0.0,	108.0, 82
			0.0,	86.0, 75
			0.02217555046081543,	51.0, 57
			0.0, 0.0,	53.0, 39
			2.537642240524292,	48.0, 45
			0.6009789109230042,	33.0, 46
			0.0, 0.0, 0.0, 0.0, 0.0,	45.0, 35
			2.7173004150390625,	50.0, 38
			0.04458862543106079,	32.0, 48
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	36.0, 30
			0.0,	47.0, 41
			1.6165740489959717,	31.0, 48
			0.0, 0.0,	40.0, 30
			2.979719400405884, 0.0,	47.0, 38
			1.7628419399261475,	28.0, 45
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	84.0, 74
			...]	85.0, 115
			[1.2918039560317993,	[17.0, 16
			0.0, 0.0, 0.0,	16.0, 17
			0.5955402851104736,	16.0, 17
			0.0,	18.0, 17
			10.331324577331543,	18.0, 18
			0.0, 0.0, 0.0, 0.0, 0.0,	18.0, 18
			0.30409616231918335,	17.0, 17
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	17.0, 17
			0.0,	17.0, 17
			0.09195172786712646,	18.0, 18
			0.0, 0.0, 0.0,	18.0, 18
			0.03584176301956177,	18.0, 18
			0.0,	20.0, 20
			0.8102596402168274,	20.0, 21
			0.0, 0.0, 0.0, 0.0,	21.0, 21
			0.1687915325164795,	21.0, 21
			0.0, 0.0, 0.0,	21.0, 21
			1.4330172538757324,	21.0, 21
			0.0, 0.0,	21.0, 21
			1.5582101345062256,	21.0, 22
			0.6033541560173035,	21.0, 21
			0.0, 0.0, 0.0, 0.0,	24.0, 22
			0.9885568618774414,	20.0, 27
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	23.0, 20
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	23.0, 21
56 155		dog		

id	image	label	deep_features	image_arr
				20.0, 17
				18.0, 18
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	22.0, 20
			0.9468067288398743,	18.0, 26
			0.20415258407592773,	22.0, 20
			0.2826802134513855,	22.0, 20
			0.9835384488105774,	19.0, 21
			0.0, 0.0, 0.0, 0.0, 0.0,	21.0, 20
			3.2195847034454346,	23.0, 23
			0.0, 0.0,	23.0, 24
			1.2764527797698975,	24.0, 24
			0.41183537244796753,	24.0, 24
			0.033274173736572266,	24.0, 23
			0.0, 1.099676489830017,	23.0, 23
			1.5389223098754883,	22.0, 22
			0.0, 0.0, 0.0, 0.0, 0.0,	22.0, 22
			0.2714768648147583,	22.0, 22
			0.0,	20.0, 22
			0.10360920429229736,	21.0, 19
			0.0, 0.0,	21.0, 20
			2.793903350830078, 0.0,	20.0, 22
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	21.0, 20
			0.0, ...]	22.0, 21
				17.0, 18
				17.0, 18.0,
			[0.5028637051582336,	[176.0, 170
			0.0,	154.0, 175
			1.3025834560394287,	174.0, 162
			0.0,	179.0, 180
			1.0391185283660889,	170.0, 179
			0.0, 8.659873962402344,	179.0, 168
			0.0, 0.0, 0.0, 0.0, 0.0,	182.0, 182
			1.9100522994995117,	170.0, 180
			0.0, 0.0, 0.0,	178.0, 165
			1.2369976043701172,	177.0, 173
			0.5807572603225708,	161.0, 174
			0.0, 0.0, 0.0,	170.0, 161
			0.9829062223434448,	174.0, 170
57	156	bird	1.8005902767181396,	159.0, 174
			0.0, 0.0,	170.0, 159
			0.360700786113739,	172.0, 168
			0.5044002532958984,	158.0, 172
			0.5284895896911621,	166.0, 153
			0.0, 0.0, 0.0, 0.0,	194.0, 180
			0.20143556594848633,	155.0, 201
			1.0978937149047852,	187.0, 160
			0.0, 0.0, 0.0, 0.0,	197.0, 186
			1.9677767753601074,	163.0, 187
			2.0990161895751953,	184.0, 167
			0.0, 0.0, 0.0,	202.0, 202
			2.8712830543518066,	188.0, 210
			0.1690678596496582,	210.0, 198

id	image	label	deep_features	image_arr
58		dog	0.8837544322013855, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.38999080657958984, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.4668987989425659, 0.0, 0.0, 1.2945797443389893, 0.08780288696289062, 0.0, 0.3201426863670349, 0.0, 0.0, 1.1453943252563477, 0.0, 0.0, 0.6693004369735718, 0.0, 0.5768687129020691, 0.0, 1.5690394639968872, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 3.1418075561523438, 0.45033085346221924, 1.0290225744247437, 0.20341497659683228, 0.0, 0.0, 0.0, 0.0, 0.0, ...]	211.0, 210 197.0, 211 209.0, 196 209.0, 206 193.0, 210 206.0, 194 211.0, 206 192.0, 215 209.0, 193 219.0, 212 197.0, 216 210.0, 194 196.0, 190 174.0, 182 175.0, 157 188.0, 181 163.0, 183 176.0, 158 176.0, 170 152.0, 164 162.0, 142 176.0, 170 154.0, 175
			[0.0, 0.0, 0.6301761865615845, 0.6418892741203308, 1.6644339561462402, 0.6595034003257751, 7.162852764129639, 0.0, 0.0, 0.0, 0.0, 0.1751040816307068, 0.9439848065376282, 1.8976194858551025, 0.05196654796600342, 0.5520987510681152, 0.8791377544403076, 0.6613050103187561, 0.904879629611969, 0.0, 0.0, 0.3912172317504883, 0.48629099130630493, 0.0, 0.0, 0.0, 0.11628735065460205, 1.7521631717681885, 0.0, 0.0, 0.015637636184692383, 0.45740383863449097, 0.0, 0.0, 0.0,	[155.0, 26 37.0, 148 23.0, 33 147.0, 23 33.0, 148 22.0, 33 149.0, 22 33.0, 150 23.0, 34 151.0, 24 35.0, 151 24.0, 35 152.0, 25 36.0, 154 26.0, 38 156.0, 24 37.0, 157 25.0, 37 157.0, 27 39.0, 153 29.0, 39 150.0, 26 39.0, 150 26.0, 40 145.0, 25



id	image	label	deep_features	image_arr
			0.0, 0.12613213062286377, 4.435794353485107, 1.243046522140503, 1.6602697372436523, 0.0, 0.0, 0.7344875335693359, 0.0, 0.0, 0.0, 0.0, 0.4532127380371094, 0.0, 0.0, 0.0, 0.0, 0.35900986194610596, 0.0, 0.0, 0.0, 1.9276747703552246, 0.0, 0.0, 0.0, 6.042058944702148, 0.0, 0.0, 0.0, 0.7893004417419434, 2.0314416885375977, 0.0, 0.0, 0.0, 1.3717613220214844, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.2220650315284729, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.7223799228668213, 0.0, 0.0, 0.0, 0.7621256709098816, 0.0, 0.6934152841567993, 0.0, 0.0, 2.315870761871338, 0.0, 0.02884984016418457, 0.0, 2.3786492347717285, 0.2488430142402649, 0.0, 0.0, 0.0, 0.09819555282592773, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.8891955018043518, 0.6361446380615234, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, ...]	206.0, 16€ 191.0, 20€ 168.0, 191 206.0, 16€ 190.0, 20€ 167.0, 18€ 204.0, 16€ 189.0, 204 167.0, 19€ 206.0, 16€ 190.0, 20€ 170.0, 19€ 207.0, 17€ 189.0, 207 170.0, 18€ 207.0, 171 190.0, 207 171.0, 19€ 207.0, 17€ 190.0, 207 171.0, 19€ 208.0, 171 190.0, 207 171.0, 191 208.0, 172 191.0, 20€ 171.0, 19€ 207.0, 171 191.0, 20€ 172.0, 192 209.0, 172 191.0, 20€ 172.0, 191 208.0, 171 191.0, 20€ 174.0, 19€ 211.0, 172 192.0, 20€ 168.0, 18€ 201.0, 17€
60 161		automobile	[0.3730015754699707, 0.0, 0.0, 0.0, 0.0, 0.0, 9.145014762878418, 0.46300432085990906, 0.0, 0.0, 0.0, 0.0, 0.47507932782173157, 0.0, 0.0, 3.1302366256713867, 1.2694392204284668,	[27.0, 2€ 24.0, 22 18.0, 1€ 23.0, 1€ 20.0, 24 24.0, 22 21.0, 2€ 20.0, 2€ 25.0, 1€


id	image	label	deep_features	image_arr
			0.0, 0.0,	19.0, 24
			2.7614049911499023,	18.0, 18
			0.0,	23.0, 17
			0.5903805494308472,	21.0, 23
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	18.0, 20
			0.0,	21.0, 16
			0.15943950414657593,	24.0, 26
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	21.0, 23
			0.0, 0.0,	24.0, 19
			1.1740561723709106,	19.0, 21
			0.0, 0.0, 0.0,	16.0, 16
			1.2940213680267334,	20.0, 14
			0.0, 0.0, 0.0, 0.0, 0.0,	17.0, 22
			2.0152361392974854,	16.0, 18
			0.0, 0.0,	23.0, 17
			0.7197884917259216,	17.0, 22
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	16.0, 15
			0.0, 0.0,	19.0, 16
			2.1833596229553223,	11.0, 15
			0.0, 0.0, 0.0, 0.0, 0.0,	14.0, 10
			2.8173775672912598,	14.0, 13
			0.0, 0.0,	9.0, 13
			0.5192273259162903,	12.0, 9
			0.0, 0.0,	13.0, 12
			3.441880464553833, 0.0,	7.0, 11
			0.0,	10.0, 7
			3.1173551082611084,	11.0, 10
			1.250852346420288, 0.0,	9.0, 13
			0.0,	12.0, 10
			1.5770509243011475,	14.0, 13
			0.0, 0.0, 0.0, 0.0,	11.0, 15
			1.2626831531524658,	15.0, 10
			0.0, 0.0, 0.0,	14.0, 13
			1.7952895164489746,	14.0, 19
			0.0, 0.0,	15.0, 32
			4.204851150512695,	37.0, 30
			2.20443058013916, 0.0,	35.0, 41
			0.0, 0.0, 0.0, 0.0,	31.0, 24
			0.47775959968566895,	29.0, 22
			0.0, ...]	23.0, 19
				20.0, 22.0,
61	168	dog	[0.0, 0.0, 0.0, 0.0, 0.0,	[255.0, 255
			0.0, 9.103782653808594,	255.0, 255
			0.0, 0.0, 0.0,	255.0, 255
			1.8559744358062744,	255.0, 255
			0.0, 1.791100263595581,	255.0, 255
			0.9106364250183105,	255.0, 255
			0.8724840879440308,	255.0, 255
			0.0, 0.0, 0.0,	255.0, 255
			0.7120300531387329,	255.0, 255
			0.0, 0.0, 0.0, 0.0, 0.0,	255.0, 255
			0.2721439599990845,	255.0, 255





id	image	label	deep_features	image_arr
			0.0, 0.0, 0.0, 0.0,	44.0, 171
			0.7184567451477051,	166.0, 44
			0.0, 0.0,	169.0, 164
			0.1993621587753296,	44.0, 167
			0.9222209453582764,	161.0, 44
			0.7466657161712646,	164.0, 155
			0.0, 0.0, 0.0,	47.0, 165
			1.3624814748764038,	155.0, 51
			0.419411301612854, 0.0,	163.0, 156
			0.0, 0.0, 0.0, 0.0, 0.0,	48.0, 158
			1.624588131904602,	152.0, 45
			1.6903584003448486,	156.0, 145
			0.0, 0.0, 0.0, 0.0,	45.0, 156
			0.24142879247665405,	147.0, 44
			1.1257892847061157,	156.0, 147
			0.0, 0.0,	43.0, 157
			1.4532443284988403,	148.0, 43
			0.0, 0.0, 0.0, 0.0, 0.0,	157.0, 148
			0.8283369541168213,	41.0, 154
			0.05556643009185791,	146.0, 42
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	155.0, 147
			0.0, 0.0, 0.0, 0.0,	42.0, 158
			2.6165568828582764,	148.0, 47
			0.0, 0.0,	159.0, 151
			0.3641994595527649,	47.0, 156
			0.0, 0.0,	152.0, 38
			2.439258098602295, 0.0,	157.0, 152
			0.0, 3.766983985900879,	42.0, 153
			0.0, 0.0, 0.0,	149.0, 48
			0.17388463020324707,	148.0, 150
			0.0,	45.0, 146
			0.4726071357727051,	143.0, 41
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	142.0, 133
			0.0, 0.0, 0.0,	44.0, 135
			2.8458309173583984,	137.0, 45
			2.1812901496887207,	148.0, 147
			0.1513909101486206,	56.0, 198
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	188.0, 38
			...]	
63	178	dog	[0.0, 0.0, 0.0, 0.0, 0.0,	[142.0, 118
			0.0, 9.505928039550781,	145.0, 161
			0.8880027532577515,	135.0, 170
			0.0, 0.0, 0.0, 0.0,	169.0, 141
			2.9063198566436768,	179.0, 166
			0.5098089575767517,	138.0, 172
			0.0,	150.0, 121
			0.39498329162597656,	146.0, 125
			0.0, 1.50661301612854,	96.0, 111
			0.0, 0.0, 0.0,	110.0, 80
			0.7459983825683594,	89.0, 112
			0.8089607954025269,	82.0, 85
			0.0,	114.0, 86


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dog


id	image	label	deep_features	image_arr
				173.0, 148
				126.0, 178
				156.0, 120
				182.0, 160
				122.0, 186
			0.10916942358016968,	166.0, 119
			0.0, 0.0, 0.0,	180.0, 161
			1.0013442039489746,	102.0, 180
			1.6276782751083374,	158.0, 124
			0.3692474365234375,	181.0, 160
			0.6157593727111816,	135.0, 181
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	162.0, 131
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	178.0, 158
			0.0, 0.0,	129.0, 172
			0.23451745510101318,	153.0, 123
			0.0, 0.0, 0.0, 0.0, 0.0,	174.0, 158
			0.21037167310714722,	123.0, 177
			0.0, 0.0, 0.0,	161.0, 131
			0.6405729055404663,	176.0, 157
			0.0,	133.0, 178
			0.07446259260177612,	158.0, 123
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	181.0, 163
			3.744626522064209,	118.0, 182
			0.01398777961730957,	164.0, 125
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	181.0, 162
			0.0, 0.0, 0.0, 0.0,	135.0, 183
			1.7556941509246826,	166.0, 138
			0.3803797960281372,	186.0, 170
			0.40541040897369385,	135.0, 196
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	177.0, 141
			...]	190.0, 173
				138.0, 176
				164.0, 126
				159.0, 134
				79.0, 142
66 183		bird	[0.0, 0.0, 0.0,	[122.0, 125
			0.5056060552597046,	130.0, 131
			0.0, 0.0,	134.0, 139
			7.669656276702881, 0.0,	117.0, 120
			0.0, 0.0, 0.0, 0.0,	125.0, 116
			1.1038520336151123,	117.0, 122
			0.0, 0.0,	130.0, 129
			0.19757503271102905,	135.0, 125
			0.0, 0.71065753698349,	124.0, 130
			0.02070087194442749,	123.0, 122
			0.0, 0.0,	128.0, 107
			1.5882911682128906,	107.0, 111
			0.565735936164856,	132.0, 133
			0.5745071172714233,	136.0, 145
			0.5324041247367859,	146.0, 148
			2.3053643703460693,	141.0, 143


id	image	label	deep_features	image_arr
67		cat	0.0, 0.0, 0.0, 0.0, 0.0,	144.0, 125
			2.3504695892333984,	126.0, 125
			0.5765612125396729,	133.0, 132
			0.0, 0.0, 0.0, 0.0, 0.0,	137.0, 124
			2.418440103530884, 0.0,	123.0, 125
			0.0, 0.0, 0.0, 0.0, 0.0,	131.0, 130
			0.5952236652374268,	136.0, 127
			0.0, 0.0,	126.0, 132
			0.14076632261276245,	117.0, 116
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	120.0, 114
			1.3948099613189697,	114.0, 116
			0.8327327966690063,	130.0, 130
			0.0, 0.0, 0.0,	132.0, 135
			1.6637860536575317,	139.0, 141
			0.0, 0.0,	125.0, 125
			0.5679056644439697,	120.0, 120
			0.0, 0.0,	120.0, 113
			2.318519353866577, 0.0,	117.0, 117
			0.0, 0.0, 0.0, 0.0,	116.0, 111
			1.9958069324493408,	109.0, 114
			0.4840923547744751,	129.0, 128
			0.019869446754455566,	136.0, 135
			1.9936352968215942,	139.0, 147
			0.0, 0.0, 0.0,	138.0, 138
			2.2750163078308105,	146.0, 141
			0.9585714936256409,	141.0, 145
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	142.0, 143
			0.0,	151.0, 132
			1.3284400701522827,	135.0, 142
			0.0,	130.0, 133
			0.6368661522865295,	140.0, 125
			2.1492364406585693,	128.0, 135
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	123.0, 126
			0.0, 0.0, ...]	131.0, 132
			[2.131326675415039,	[215.0, 185
			0.307553768157959, 0.0,	168.0, 215
			0.0, 0.0, 0.0,	186.0, 165
			8.526945114135742, 0.0,	221.0, 185
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	167.0, 228
			0.0,	196.0, 173
			1.1103577613830566,	232.0, 200
			0.0,	177.0, 236
			0.41621536016464233,	204.0, 181
			0.6425044536590576,	244.0, 212
			0.0, 0.0,	189.0, 247
			0.3628888726234436,	217.0, 191
			0.0, 0.0,	246.0, 215
			0.0447232723236084,	189.0, 247
			0.0,	221.0, 191
			0.6897019743919373,	249.0, 222
			0.0, 0.0, 0.0,	192.0, 246


id	image	label	deep_features	image_arr
			0.39666980504989624,	218.0, 185
			0.23634189367294312,	246.0, 216
			0.0, 0.0, 0.0,	187.0, 245
			0.3226538300514221,	219.0, 190
			0.0, 0.0, 0.0,	251.0, 221
			4.117969512939453, 0.0,	192.0, 250
			0.0, 0.0, 0.0,	221.0, 191
			1.342703104019165, 0.0,	248.0, 222
			0.6036777496337891,	192.0, 245
			0.0,	223.0, 192
			0.8777071237564087,	250.0, 222
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	192.0, 252
			0.0, 0.0, 0.0, 0.0, 0.0,	221.0, 192
			0.9037584662437439,	247.0, 220
			0.0, 0.0,	190.0, 247
			1.4465410709381104,	222.0, 191
			0.18730878829956055,	248.0, 220
			0.11765295267105103,	190.0, 245
			0.8060912489891052,	215.0, 186
			0.0, 0.0, 0.0, 0.0, 0.0,	244.0, 213
			1.2664260864257812,	185.0, 241
			0.0, 0.0,	211.0, 184
			1.9078116416931152,	235.0, 205
			0.0, 0.0, 0.0,	178.0, 227
			1.553900957107544,	197.0, 170
			1.0100054740905762,	214.0, 183
			0.0, 0.0,	159.0, 203
			0.11352384090423584,	170.0, 153
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	192.0, 161
			0.0, 3.457573652267456,	146.0, 175
			0.0,	150.0, 137
			0.2226734161376953,	217.0, 185
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	170.0, 215
			...]	
			[0.586452841758728,	[219.0, 206
			0.562805712223053, 0.0,	198.0, 223
			0.0, 0.0, 0.0,	209.0, 200
			10.11833381652832, 0.0,	211.0, 197
			0.0, 0.0, 0.0, 0.0,	188.0, 203
			2.33563494682312, 0.0,	189.0, 180
			0.0, 0.0, 0.0,	199.0, 185
			1.3177062273025513,	176.0, 200
			0.0,	187.0, 178
			1.3346326351165771,	204.0, 190
			0.0, 0.786372721195221,	181.0, 208
			0.0, 0.0, 0.0, 0.0,	194.0, 185
			0.4850257635116577,	212.0, 198
			0.0, 0.0, 0.0, 0.0,	189.0, 216
			2.8415842056274414,	200.0, 190
			0.364410400390625, 0.0,	216.0, 201
			0.0,	189.0, 214
			0.23710179328918457,	202.0, 183
68 187		cat		

id	image	label	deep_features	image_arr
				210.0, 202
				175.0, 208
				204.0, 164
			0.0, 0.0,	206.0, 206
			0.6295756101608276,	152.0, 200
			0.5177440047264099,	205.0, 136
			0.0, 0.0,	186.0, 194
			0.0943496823310852,	112.0, 154
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	166.0, 75
			0.0, 0.0, 0.0, 0.0,	140.0, 148
			0.5993751287460327,	59.0, 142
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	145.0, 62
			0.3246303200721741,	149.0, 149
			0.0, 0.0,	70.0, 140
			1.1241238117218018,	141.0, 61
			0.9907665848731995,	123.0, 125
			0.5445072054862976,	47.0, 107
			1.2256402969360352,	111.0, 36
			0.0, 0.0, 0.0, 0.0, 0.0,	90.0, 94
			1.8862826824188232,	25.0, 78
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	83.0, 21
			1.4165513515472412,	76.0, 80
			0.0, 0.0,	26.0, 62
			0.42767107486724854,	66.0, 19
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	50.0, 52
			0.0, 0.0,	18.0, 52
			0.279030442237854, 0.0,	52.0, 23
			0.6490544080734253,	57.0, 59
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	25.0, 61
			...]	64.0, 24
				218.0, 205
				196.0, 220
			[0.43163537979125977,	[226.0, 247
			0.0, 0.0, 0.0, 0.0, 0.0,	242.0, 237
			10.345500946044922,	248.0, 216
			0.0, 0.0, 0.0,	238.0, 243
			0.15574133396148682,	202.0, 241
			0.0, 0.0,	237.0, 143
			0.14475339651107788,	248.0, 238
			0.0,	109.0, 240
			1.0603554248809814,	239.0, 148
			0.0, 0.0, 0.0, 0.0, 0.0,	243.0, 237
			0.8919513821601868,	132.0, 245
			0.0,	236.0, 115
			0.5023209452629089,	241.0, 240
			0.0,	116.0, 235
			0.39322078227996826,	233.0, 112
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	227.0, 213
			0.19534826278686523,	95.0, 232
			0.0, 0.0, 0.0, 0.0, 0.0,	213.0, 87
			2.3213186264038086,	245.0, 232
69 190		dog		

id	image	label	deep_features	image_arr
				91.0, 252
				241.0, 124
				245.0, 236
			1.830350637435913, 0.0,	117.0, 231
			0.0,	221.0, 85
			0.4273095726966858,	241.0, 235
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	106.0, 250
			0.6627297401428223,	250.0, 135
			0.0,	250.0, 251
			1.0705955028533936,	183.0, 247
			0.0, 0.0, 0.0, 0.0,	249.0, 219
			0.40750372409820557,	243.0, 247
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	221.0, 236
			0.5545860528945923,	242.0, 201
			0.0, 0.0,	227.0, 233
			1.05519700050354, 0.0,	165.0, 239
			0.0, 0.0, 0.0, 0.0,	237.0, 127
			1.3934385776519775,	248.0, 236
			0.0, 0.0,	89.0, 254
			2.4192681312561035,	242.0, 106
			0.0, 0.0, 0.0,	252.0, 251
			3.6727676391601562,	186.0, 235
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	247.0, 248
			0.0, 0.0, 0.0, 0.0, 0.0,	221.0, 243
			2.92938232421875,	255.0, 221
			2.449402093887329,	244.0, 255
			0.8357433676719666,	222.0, 242
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	255.0, 223
			...]	243.0, 255
				236.0, 242
				193.0, 246
			[0.20729339122772217,	[53.0, 49
			1.518114686012268, 0.0,	28.0, 58
			1.063858985900879, 0.0,	54.0, 26
			0.0, 8.409309387207031,	29.0, 23
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	11.0, 20
			0.0, 0.0,	16.0, 11
			2.042670249938965, 0.0,	22.0, 22
			0.31058573722839355,	8.0, 33
			0.0, 2.09519624710083,	34.0, 14
			0.0,	29.0, 30
			0.7102333307266235,	14.0, 19
			0.0,	16.0, 7
			0.16661125421524048,	20.0, 13
			0.24494796991348267,	5.0, 25
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	18.0, 8
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	23.0, 17
			0.0,	4.0, 34
			0.5155747532844543,	28.0, 13
			1.2524824142456055,	36.0, 31
			0.0, 0.0,	15.0, 30
70	193		automobile	


id	image	label	deep_features	image_arr
			1.370683193206787, 0.0,	26.0, 6
			1.0695608854293823,	41.0, 38
			0.0, 0.0, 0.0,	12.0, 42
			1.368699550628662, 0.0,	40.0, 10
			0.0, 0.0, 0.0, 0.0,	53.0, 49
			0.014978408813476562,	28.0, 54
			0.0,	47.0, 35
			0.4295749068260193,	38.0, 32
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	19.0, 37
			1.8211058378219604,	31.0, 17
			0.0, 0.0,	34.0, 31
			1.6579511165618896,	15.0, 30
			0.0, 0.0, 0.0,	33.0, 12
			0.15179204940795898,	32.0, 35
			0.0, 2.23161244392395,	14.0, 37
			1.3352735042572021,	40.0, 19
			0.0, 4.18447208404541,	47.0, 50
			0.5217082500457764,	28.0, 42
			0.0, 0.0,	47.0, 24
			2.3122925758361816,	52.0, 52
			0.0, 0.0, 0.0,	44.0, 64
			0.9261359572410583,	60.0, 57
			0.19276130199432373,	62.0, 57
			0.0,	42.0, 56
			0.22468680143356323,	53.0, 45
			0.0, 0.0, 0.0, 0.0, 0.0,	26.0, 24
			0.7308478355407715,	25.0, 39
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	36.0, 39
			0.0, ...]	38.0, 33
				15.0, 46.0,
			[1.8221540451049805,	[35.0, 52
			0.0, 0.0, 0.0, 0.0, 0.0,	29.0, 26
			12.118995666503906,	44.0, 31
			0.0, 0.0, 0.0, 0.0, 0.0,	29.0, 40
			0.6144775152206421,	28.0, 33
			0.0, 0.0,	44.0, 31
			0.5681885480880737,	36.0, 50
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	34.0, 41
			0.0,	55.0, 36
			0.8303009271621704,	44.0, 59
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	36.0, 45
			0.0, 0.0, 0.0, 0.0, 0.0,	61.0, 40
			0.47044092416763306,	40.0, 57
			0.0, 0.0, 0.0,	40.0, 34
			2.344336986541748, 0.0,	51.0, 34
			0.0, 0.0, 0.0, 0.0,	32.0, 49
			2.7618141174316406,	32.0, 33
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	49.0, 32
			0.0, 0.0,	35.0, 52
			0.36705684661865234,	32.0, 36
			0.0,	54.0, 34
			0.5036289691925049,	36.0, 54
71 195		bird		


id	image	label	deep_features	image_arr
72		dog		34.0, 38
				55.0, 35
				37.0, 60
				36.0, 43
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	67.0, 42
			0.7475106120109558,	50.0, 75
			0.0, 0.0, 0.0, 0.0, 0.0,	50.0, 57
			0.7805591225624084,	81.0, 56
			1.7554025650024414,	59.0, 84
			0.0,	60.0, 51
			2.3418824672698975,	76.0, 53
			0.0, 0.0,	56.0, 81
			5.36761999130249, 0.0,	58.0, 54
			0.0, 0.0,	79.0, 56
			2.3304967880249023,	44.0, 65
			0.42767560482025146,	46.0, 45
			0.0, 0.0, 0.0,	70.0, 48
			1.0579217672348022,	50.0, 74
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	52.0, 49
			4.850001811981201,	74.0, 52
			0.8675299286842346,	53.0, 78
			0.0, 0.0, 0.0,	53.0, 60
			0.32276177406311035,	88.0, 59
			0.0, 0.0, 0.0, ...]	59.0, 87
				65.0, 54
				75.0, 55
				32.0, 51
				36.0, 27.0,
			[0.5096753835678101,	[168.0, 165
			0.0, 0.0, 0.0, 0.0, 0.0,	162.0, 171
			9.81425952911377, 0.0,	172.0, 166
			0.0, 0.0, 0.0, 0.0,	176.0, 177
			3.0955262184143066,	171.0, 184
			0.8326953649520874,	185.0, 179
			0.0,	189.0, 188
			0.7532899975776672,	183.0, 195
			0.0, 0.0,	191.0, 188
			0.42633068561553955,	193.0, 190
			1.3045399188995361,	184.0, 189
			0.0,	187.0, 176
			1.4231520891189575,	184.0, 182
			0.8221127986907959,	168.0, 183
			0.0, 0.0, 0.0,	182.0, 166
			0.47552305459976196,	180.0, 179
			0.0, 0.0, 0.0, 0.0,	164.0, 177
			0.9065277576446533,	174.0, 160
			0.9165417551994324,	171.0, 168
			0.0, 0.0,	152.0, 166
			0.10889643430709839,	162.0, 146
			0.0, 0.0,	166.0, 161
			0.2976110577583313,	143.0, 162
			1.4943692684173584,	158.0, 141


id	image	label	deep_features	image_arr	
			0.0, 0.0, 1.3947614431381226, 0.0, 0.4653279781341553, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.2038288116455078, 0.0, 0.0, 0.11766910552978516, 0.0, 0.0, 0.0, 0.27243971824645996, 0.0, 0.0, 0.511671245098114, 0.5561402440071106, 0.0, 3.1021666526794434, 0.0, 0.0, 0.0, 0.0, 0.0, 1.809540033340454, 0.4782463610172272, 0.0, 2.053391695022583, 0.0, 0.0, 0.0, 2.159425735473633, 1.0448100566864014, 0.0, 0.0, 0.0, 0.0, 1.2837529182434082, 0.0, 0.0, 0.0, 0.0, 0.0, 1.2734651565551758, 0.0, 0.0, 0.259640634059906, 0.0, 0.0, 0.0, 0.0, 0.0, ...]	158.0, 156 139.0, 154 151.0, 134 168.0, 163 146.0, 200 192.0, 177 211.0, 205 189.0, 208 209.0, 192 209.0, 211 196.0, 213 215.0, 203 215.0, 216 209.0, 211 211.0, 206 173.0, 172 162.0, 193 191.0, 178 181.0, 179 166.0, 163 161.0, 148 156.0, 154 140.0, 137 136.0, 123 161.0, 162 154.0, 164	
73	201		automobile	[0.0, 0.0, 0.0, 2.2349352836608887, 0.0, 0.0, 6.330926895141602, 0.0, 0.0, 0.9658594131469727, 0.0, 0.0, 0.0, 0.0, 0.08320868015289307, 0.13470327854156494, 1.3686413764953613, 0.48219048976898193, 0.0, 0.48185449838638306, 0.0, 0.0, 0.0, 1.8551537990570068, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 2.2913742065429688, 0.0, 0.0, 0.8401904106140137, 0.0, 0.0, 0.0,	[212.0, 222 231.0, 211 221.0, 229 213.0, 223 231.0, 215 225.0, 231 216.0, 226 232.0, 217 227.0, 233 218.0, 228 234.0, 220 229.0, 235 222.0, 229 236.0, 224 231.0, 238 225.0, 232 240.0, 225 233.0, 238 226.0, 234 237.0, 227 235.0, 238 229.0, 237





id	image	label	deep_features	image_arr
				57.0, 45
			1.0179991722106934,	47.0, 52
			0.0, 2.232886791229248,	42.0, 38
			0.0, 0.0,	43.0, 35
			0.37340855598449707,	66.0, 71
			0.0,	60.0, 74
			0.17292314767837524,	79.0, 65
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	41.0, 44
			0.0, 0.0, 0.0,	36.0, 55
			1.2587623596191406,	62.0, 52
			0.0, 0.0,	75.0, 76
			0.8122513294219971,	65.0, 75
			0.846284031867981, 0.0,	74.0, 61
			0.0, 0.0, 0.0,	73.0, 85
			2.6622748374938965,	66.0, 85
			0.0, 0.0,	96.0, 80
			2.7073755264282227,	99.0, 106
			0.0, 0.0, 0.0,	83.0, 121
			3.109945774078369, 0.0,	128.0, 107
			0.0, 0.0,	109.0, 117
			0.7427584528923035,	96.0, 97
			0.0528184175491333,	108.0, 77
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	100.0, 108
			2.2259864807128906,	87.0, 95
			1.295295238494873, 0.0,	107.0, 91
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	115.0, 117
			...]	118.0, 105
			[0.0, 0.0, 0.0, 0.0,	[97.0, 157
			0.36890745162963867,	161.0, 132
			0.0, 8.731593132019043,	125.0, 115
			0.0, 0.0, 0.0, 0.0, 0.0,	140.0, 130
			0.3210643529891968,	132.0, 101
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	160.0, 182
			0.0, 0.0,	84.0, 166
			2.6410715579986572,	192.0, 125
			0.9543846845626831,	64.0, 75
			0.0,	162.0, 60
			1.7814788818359375,	42.0, 176
75	205	cat	0.9938988089561462,	114.0, 80
			0.0,	185.0, 128
			2.4444785118103027,	90.0, 184
			0.0, 0.0,	132.0, 88
			1.2784684896469116,	180.0, 127
			0.05110597610473633,	84.0, 174
			0.0, 0.0,	121.0, 78
			0.12689846754074097,	177.0, 124
			0.0, 0.0, 0.0,	81.0, 181
			1.8668726682662964,	127.0, 84
			0.11731302738189697,	176.0, 125
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	71.0, 170
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	116.0, 65


id	image	label	deep_features	image_arr
				168.0, 112
				66.0, 171
				106.0, 66
			0.0, 0.0, 0.0,	169.0, 66
			1.8753101825714111,	37.0, 144
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	22.0, 19
			0.0,	121.0, 92
			1.3514385223388672,	108.0, 88
			0.0, 0.0,	171.0, 191
			1.3148753643035889,	97.0, 120
			0.0, 0.0, 0.0, 0.0, 0.0,	142.0, 135
			3.9463603496551514,	14.0, 24
			0.5266405344009399,	138.0, 18
			0.0,	27.0, 95
			0.9252366423606873,	120.0, 141
			0.0, 0.0, 0.0, 0.0,	102.0, 131
			0.04909968376159668,	141.0, 115
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	106.0, 79
			0.0, 0.0, 0.0, 0.0,	75.0, 154
			2.322266101837158,	164.0, 67
			1.770155668258667,	167.0, 192
			0.47926586866378784,	91.0, 176
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	191.0, 126
			...]	167.0, 172
				103.0, 157
				162.0, 132
			[0.776231050491333,	[214.0, 198
			0.0, 0.0, 0.0, 0.0, 0.0,	145.0, 215
			11.343284606933594,	199.0, 144
			0.0, 0.0, 0.0, 0.0, 0.0,	195.0, 179
			2.6137800216674805,	121.0, 188
			0.0, 0.0,	172.0, 113
			0.47836965322494507,	181.0, 167
			0.7705832719802856,	99.0, 188
			0.0, 0.0, 0.0, 0.0,	177.0, 101
			0.5750877261161804,	180.0, 167
			0.0, 0.0, 0.0,	96.0, 167
			0.4257718324661255,	153.0, 88
76	207		2.339292049407959, 0.0,	180.0, 165
		dog	0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	107.0, 190
			0.0,	174.0, 121
			1.2947674989700317,	177.0, 164
			0.0, 0.0,	110.0, 172
			1.0562362670898438,	161.0, 97
			2.050443649291992, 0.0,	155.0, 146
			0.0, 0.0,	69.0, 151
			1.6032955646514893,	144.0, 60
			1.1311017274856567,	153.0, 145
			1.9120111465454102,	62.0, 153
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	139.0, 60
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	168.0, 150

id	image	label	deep_features	image_arr
				73.0, 170
				151.0, 75
				161.0, 142
				66.0, 173
				154.0, 78
			0.0, 0.0, 0.0, 0.0, 0.0,	180.0, 162
			1.8411344289779663,	85.0, 165
			0.12526315450668335,	152.0, 73
			0.0,	164.0, 145
			1.5871479511260986,	69.0, 147
			0.0, 0.0, 0.0, 0.0, 0.0,	135.0, 54
			0.36999064683914185,	120.0, 112
			0.0, 0.0,	29.0, 113
			1.6963690519332886,	107.0, 24
			0.0, 0.0, 0.0,	128.0, 118
			1.1848291158676147,	42.0, 133
			0.13245785236358643,	121.0, 48
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	123.0, 112
			0.0, 0.0, 0.0, 0.0,	34.0, 123
			1.9678232669830322,	113.0, 25
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	139.0, 130
			0.0, 0.0, ...]	40.0, 161
				149.0, 63
				212.0, 197
				141.0, 215
			[0.0, 0.0, 0.0,	[230.0, 235
			0.059349119663238525,	239.0, 235
			0.0, 0.0,	240.0, 244
			10.741910934448242,	235.0, 240
			0.0,	244.0, 236
			0.13416987657546997,	241.0, 245
			0.0, 0.0, 0.0,	236.0, 241
			1.053105354309082, 0.0,	246.0, 237
			0.0, 0.0,	242.0, 246
			0.5305894613265991,	236.0, 241
			0.873677134513855,	245.0, 236
			1.7957239151000977,	241.0, 245
			0.0, 0.0,	235.0, 240
			2.461578845977783,	244.0, 234
			0.09436511993408203,	239.0, 243
			0.0,	233.0, 238
			0.7809014320373535,	242.0, 233
			0.35290294885635376,	238.0, 242
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	232.0, 237
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	241.0, 232
			2.7674007415771484,	236.0, 243
			4.8106865882873535,	232.0, 235
			0.0, 0.0, 0.0,	243.0, 231
			1.01348876953125,	234.0, 241
			2.2205655574798584,	230.0, 233
			0.0, 0.0, 0.0,	239.0, 225
77 212		dog		

id	image	label	deep_features	image_arr
				233.0, 237
				229.0, 235
				236.0, 229
			0.035341739654541016,	233.0, 236
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	228.0, 235
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	236.0, 226
			0.0, 0.0,	233.0, 236
			0.7308269143104553,	225.0, 232
			0.12997925281524658,	235.0, 225
			0.0, 0.0, 0.0, 0.0,	231.0, 234
			1.2020143270492554,	225.0, 231
			0.0, 0.0,	234.0, 224
			1.2012298107147217,	231.0, 234
			0.0, 0.0,	223.0, 229
			1.5991963148117065,	232.0, 222
			0.0, 0.0, 0.0,	228.0, 229
			0.5760176181793213,	222.0, 227
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	227.0, 222
			0.0, 0.0, 0.0, 0.0, 0.0,	225.0, 226
			2.9726006984710693,	223.0, 224
			1.1439778804779053,	226.0, 225
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	226.0, 228
			0.0, ...]	231.0, 236
				240.0, 235
			[0.968159556388855,	[139.0, 134
			0.09906584024429321,	113.0, 129
			0.0, 0.0, 0.0, 0.0,	127.0, 95
			9.145221710205078, 0.0,	130.0, 128
			0.0, 0.0, 0.0, 0.0,	105.0, 115
			0.7418596744537354,	114.0, 112
			1.1898069381713867,	105.0, 110
			0.0,	89.0, 114
			0.1776643991470337,	126.0, 63
			0.0, 0.0, 0.0,	134.0, 138
			0.31746065616607666,	80.0, 108
			0.0, 1.888458490371704,	114.0, 82
			0.0, 0.0, 0.0, 0.0,	105.0, 113
			0.4006980061531067,	88.0, 138
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	136.0, 116
			0.0, 0.0,	146.0, 136
			1.7793173789978027,	126.0, 72
			0.0, 0.0,	73.0, 52
			0.9484832882881165,	10.0, 17
			2.7760090827941895,	8.0, 12
			0.0, 0.0, 0.0, 0.0, 0.0,	18.0, 11
			0.9804614186286926,	13.0, 21
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	11.0, 11
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	19.0, 8
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	39.0, 45
			0.0, 0.0,	29.0, 106
			1.6133267879486084,	105.0, 75
78 219		bird		

id	image	label	deep_features	image_arr
				107.0, 118
				80.0, 98
				110.0, 68
				67.0, 73
				34.0, 75
				81.0, 57
			0.0, 0.0, 0.0, 0.0, 0.0,	104.0, 111
			1.9036437273025513,	97.0, 118
			0.3384726047515869,	119.0, 107
			0.0,	78.0, 85
			3.5050032138824463,	59.0, 81
			0.0, 0.0, 0.0,	90.0, 60
			1.9920260906219482,	99.0, 113
			0.011158645153045654,	73.0, 52
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	73.0, 35
			0.0, 0.0, 0.0, 0.0,	10.0, 23
			0.7784572243690491,	7.0, 48
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	63.0, 27
			0.0, 0.0, ...]	120.0, 128
				64.0, 123
				119.0, 88
				183.0, 177
				176.0, 185
			[0.9532609581947327,	[187.0, 156
			0.0, 0.0, 0.0, 0.0, 0.0,	145.0, 168
			7.856799602508545, 0.0,	151.0, 137
			0.0, 0.0, 0.0, 0.0,	122.0, 121
			0.7948357462882996,	119.0, 146
			0.0, 0.0,	136.0, 131
			0.7781658172607422,	199.0, 182
			0.16736525297164917,	166.0, 204
			1.0259811878204346,	193.0, 182
			0.0,	212.0, 204
			0.4632052183151245,	193.0, 210
			0.0,	201.0, 191
			0.8789523243904114,	184.0, 173
79	224	cat	0.549597442150116, 0.0,	164.0, 173
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	163.0, 155
			0.0,	215.0, 210
			2.0961289405822754,	206.0, 243
			0.0, 0.0, 0.0,	242.0, 235
			0.17396533489227295,	244.0, 243
			0.0,	239.0, 245
			0.04393380880355835,	245.0, 244
			1.0976388454437256,	251.0, 251
			0.46337980031967163,	251.0, 251
			0.0, 0.0,	251.0, 251
			0.5606697797775269,	251.0, 250
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	248.0, 231
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	219.0, 210
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	147.0, 130

id	image	label	deep_features	image_arr
				111.0, 95
				82.0, 63
			0.0, 0.0,	96.0, 88
			0.7660877704620361,	76.0, 93
			0.22350585460662842,	85.0, 74
			0.0,	85.0, 78
			0.8466248512268066,	64.0, 105
			0.0, 0.0, 0.0, 0.0, 0.0,	98.0, 82
			3.4277849197387695,	130.0, 117
			0.0, 0.0,	103.0, 122
			1.920283555984497, 0.0,	111.0, 97
			0.0, 0.0,	146.0, 135
			2.916254997253418,	124.0, 164
			1.5782426595687866,	154.0, 144
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	169.0, 160
			0.0, 0.0, 0.0, 0.0,	151.0, 157
			2.515803098678589,	148.0, 141
			0.3928779363632202,	139.0, 132
			1.1037333011627197,	124.0, 128
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	122.0, 116
			...]	192.0, 166
				153.0, 166
			[0.6723323464393616,	[127.0, 73
			0.0,	44.0, 118
			0.0400661826133728,	72.0, 41
			0.0, 0.0, 0.0,	109.0, 62
			9.595369338989258, 0.0,	32.0, 119
			0.0, 0.0, 0.0, 0.0,	66.0, 39
			1.0637476444244385,	110.0, 60
			0.7130265235900879,	34.0, 84
			0.0,	40.0, 17
			0.7313964366912842,	82.0, 38
			0.0,	24.0, 76
			0.8263094425201416,	34.0, 24
			0.20322972536087036,	72.0, 33
			0.10663336515426636,	19.0, 59
			0.0,	26.0, 11
			0.8438065052032471,	40.0, 16
			0.0, 0.0, 0.0, 0.0,	6.0, 34
			1.1422967910766602,	14.0, 4
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	38.0, 24
			0.0, 0.0, 0.0, 0.0, 0.0,	14.0, 54
			3.0059080123901367,	46.0, 36
			1.3192200660705566,	58.0, 54
			0.0, 0.0, 0.0,	45.0, 46
			1.9852339029312134,	48.0, 36
			0.9730959534645081,	23.0, 23
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	10.0, 19
			0.0, 0.0,	14.0, 3
			0.28164219856262207,	25.0, 14
			0.0, 0.0, 0.0, 0.0, 0.0,	5.0, 34
80	230		dog	

id	image	label	deep_features	image_arr
				18.0, 10
				50.0, 24
			0.5432678461074829,	14.0, 70
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	30.0, 18
			1.1191060543060303,	84.0, 34
			0.0, 0.0,	20.0, 85
			0.26893842220306396,	33.0, 16
			0.0, 0.0,	87.0, 32
			1.8801393508911133,	9.0, 85
			0.0, 0.0,	31.0, 7
			1.3008848428726196,	86.0, 28
			0.0, 0.0, 0.0, 0.0,	11.0, 86
			0.143873929977417, 0.0,	28.0, 12
			0.0, 0.0, 0.0,	85.0, 30
			0.15979015827178955,	13.0, 83
			0.0, 0.0, 0.0, 0.0, 0.0,	31.0, 13
			2.0744307041168213,	80.0, 31
			0.6022059917449951,	11.0, 80
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	30.0, 11
			0.0, ...]	129.0, 72
				40.0, 124
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			0.15241527557373047,	255.0, 255
			0.0, 0.0, 0.0,	255.0, 255
			0.7045602798461914,	255.0, 255
			0.7613234519958496,	255.0, 255
			2.8064968585968018,	255.0, 255
			0.0,	255.0, 255
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			0.5031111836433411,	255.0, 255
			0.0,	255.0, 255
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81	231		automobile	0.0, 0.0, 0.0, 0.0, 0.0, 0.0,
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				0.0, 0.0, 0.0, 0.0, 0.0, 0.0,
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				0.5367852449417114,
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				0.0, 0.0, 0.0, 0.0, 0.0, 0.0,
				0.0, 0.0, 0.0, 0.0,
				0.03810727596282959,
				0.0, 0.0, 0.0, 0.0, 0.0,
				2.532463550567627,
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				117.0, 107
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			0.0, 0.0,	104.0, 96
			2.3220372200012207,	45.0, 102
			0.0, 0.0, 0.0,	96.0, 46
			1.833678960800171,	95.0, 87
			2.435321569442749, 0.0,	43.0, 89
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	83.0, 41
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			3.068319797515869,	48.0, 110
			0.6591508388519287,	104.0, 55
			1.9197566509246826,	127.0, 117
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			0.019742846488952637,	252.0, 251
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			0.3193138837814331,	251.0, 250
			0.0, 0.0, 0.0, 0.0, 0.0,	250.0, 251
			0.545097827911377, 0.0,	249.0, 251
			0.0, 0.0, 0.0,	252.0, 250
			0.30519044399261475,	250.0, 252


83 238




dog


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			1.7736231088638306,	252.0, 250
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				255.0, 250
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			0.0,	255.0, 250
			0.41056913137435913,	255.0, 250
			0.0, 0.0, 0.0,	255.0, 250
			8.667458534240723,	252.0, 250
			0.006336987018585205,	254.0, 249
			0.0, 0.0, 0.0, 0.0, 0.0,	238.0, 231
			0.41612738370895386,	221.0, 219
			0.22111952304840088,	203.0, 192
			0.0,	208.0, 188
			0.5136507749557495,	175.0, 214
			1.8038196563720703,	192.0, 178
			0.22111386060714722,	214.0, 192
			0.0, 0.0,	177.0, 200
			0.44634348154067993,	184.0, 170
			0.0, 0.0, 0.0, 0.0,	200.0, 180
			0.37126976251602173,	167.0, 210
84	239	dog	0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	197.0, 180
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	238.0, 224
			0.7939362525939941,	213.0, 251
			0.0, 0.0, 0.0,	241.0, 231
			1.2339023351669312,	255.0, 247
			0.41319388151168823,	240.0, 250
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	254.0, 250
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	255.0, 250
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			0.3431320786476135,	255.0, 250
			0.0, 0.0,	254.0, 250
			0.5703943967819214,	255.0, 250
			0.0,	255.0, 250
			1.7561123371124268,	255.0, 254
			0.0, 0.0, 0.0, 0.0,	255.0, 250
			0.3292192816734314,	255.0, 254
			0.12350022792816162,	255.0, 250
			0.0, 0.0,	255.0, 250



id	image	label	deep_features	image_arr
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86	241		automobile	[0.0, [160.0, 161 0.31557971239089966, 144.0, 166 0.0, 0.0, 0.0, 0.0, 160.0, 126 9.60498332977295, 0.0, 222.0, 218 0.0, 0.0, 0.0, 0.0, 201.0, 237 0.23657160997390747, 237.0, 235 2.170776128768921, 0.0, 152.0, 154 1.9201756715774536, 141.0, 124 1.4816302061080933, 130.0, 110 0.0, 127.0, 136 0.17022329568862915, 116.0, 138 2.1768128871917725, 145.0, 128 0.0, 0.0, 151.0, 155 0.9384576678276062, 139.0, 147 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 154.0, 138 0.0, 0.0, 138.0, 145 0.29092955589294434, 131.0, 141 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 152.0, 134 0.0, 0.0, 0.0, 0.0, 145.0, 153 2.5026469230651855, 135.0, 160 0.0, 0.0, 165.0, 145 0.10968846082687378, 169.0, 172 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 156.0, 208 0.0, 0.0, 208.0, 194 1.007426142692566, 0.0, 201.0, 198 1.1221741437911987, 183.0, 154 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 158.0, 130 0.37356775999069214, 143.0, 152 0.30639952421188354, 125.0, 142 0.0, 146.0, 116 1.8741111755371094, 140.0, 140 0.0, 0.0, 0.0, 108.0, 135 1.2841113805770874, 140.0, 105




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				[121.0, 113 89.0, 115 111.0, 86 120.0, 111 86.0, 123 115.0, 94 130.0, 123 102.0, 137 129.0, 103 140.0, 131 102.0, 136 127.0, 100 126.0, 120 101.0, 121 117.0, 100 123.0, 122 107.0, 123 124.0, 109 124.0, 122 107.0, 122 121.0, 106 121.0, 122 108.0, 121 123.0, 110 119.0, 124 111.0, 118 122.0, 108 119.0, 121 104.0, 127 126.0, 107 150.0, 141 121.0, 178 159.0, 140 192.0, 167 148.0, 190 170.0, 148 193.0, 174 148.0, 206 185.0, 159 209.0, 193 172.0, 204 195.0, 180 206.0, 202
88 246		automobile	[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 7.383186340332031, 0.0, 0.0, 0.0, 0.0, 0.0, 0.2759748101234436, 0.0, 0.09981882572174072, 2.8408877849578857, 1.5644181966781616, 0.0, 0.0, 0.5234279632568359, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.4146740436553955, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 3.551510810852051, 0.0, 0.0, 1.6622565984725952, 0.0, 0.0, 0.0, 0.0, 0.0, 0.371054470539093, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.06405007839202881, 0.0, 2.2575843334198, 0.0, 0.0, 0.0, 0.0, 0.0, 0.4216075539588928, 0.0, 0.0, 3.881923198699951, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 2.2277672290802, 2.096426248550415, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.36199432611465454, 0.7647783160209656, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, ...]	

id	image	label	deep_features	image_arr
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				216.0, 211
				205.0, 217
				211.0, 205
				131.0, 118
				90.0, 125
			[0.0,	[170.0, 174
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			0.7724205851554871,	170.0, 103
			0.2067723274230957,	147.0, 155
			0.0, 9.691732406616211,	90.0, 134
			0.0, 0.0, 0.0, 0.0, 0.0,	144.0, 80
			0.5954136252403259,	144.0, 154
			0.8352184295654297,	90.0, 162
			0.0,	170.0, 102
			1.3307582139968872,	160.0, 165
			1.113028883934021, 0.0,	87.0, 158
			0.0, 0.830478310585022,	161.0, 85
			0.0,	141.0, 145
			0.2732175588607788,	90.0, 91
			0.0, 0.0, 0.0, 0.0,	100.0, 71
			0.6186504364013672,	80.0, 94
			0.0, 0.0, 0.0,	78.0, 101
			0.3087576627731323,	116.0, 101
			0.0,	89.0, 105
			0.9853488802909851,	90.0, 85
			0.0, 0.0, 0.0, 0.0,	101.0, 84
89	248	bird	0.37842363119125366,	106.0, 123
			1.420291543006897,	103.0, 125
			1.8483082056045532,	140.0, 123
			0.0, 0.0,	140.0, 153
			0.5604238510131836,	144.0, 132
			0.0,	145.0, 136
			0.22264844179153442,	157.0, 167
			0.0, 0.0, 0.0,	147.0, 245
			0.2619326114654541,	250.0, 206
			0.0, 0.0,	243.0, 243
			0.2682303786277771,	175.0, 188
			0.0, 0.0,	197.0, 115
			0.6013398170471191,	169.0, 190
			0.0, 0.0, 0.0, 0.0, 0.0,	104.0, 178
			0.8116554617881775,	203.0, 118
			0.0, 0.0,	161.0, 181
			0.5946751832962036,	115.0, 100
			0.0,	109.0, 73
			0.3502434194087982,	67.0, 67
			1.2982155084609985,	55.0, 73
			0.0, 0.0,	78.0, 62
			1.2476541996002197,	134.0, 150
			0.0, 0.0,	106.0, 145



id	image	label	deep_features	image_arr
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91	250	dog	[0.0, 0.0, 0.0, 1.1483688354492188, 0.0, 0.0, 9.332521438598633, 0.0, 0.0, 0.0, 0.4572753310203552, 0.0, 2.899914026260376, 0.8024144172668457, 0.0, 0.7253860235214233, 0.0, 0.0, 0.3883092999458313, 0.7348589897155762, 0.0, 0.5772230625152588, 0.16114431619644165, 0.0, 0.0, 0.0, 1.3046517372131348, 0.0, 0.0, 0.0, 0.0, 1.0768392086029053, 1.6038848161697388, 0.0, 0.0, 1.3532710075378418, 0.0, 0.267608106136322, 0.4730912744998932, 2.6956186294555664, 0.0, 0.0, 0.0, 0.0, 0.6553581953048706, 0.0, 0.6226832866668701, 0.0, 1.3775207996368408, 0.0, 0.0, 0.0, 0.0, 1.0695512294769287, 0.0, 0.0, 0.1266741156578064, 0.0,	[188.0, 200 199.0, 197 206.0, 204 156.0, 162 175.0, 88 112.0, 106 150.0, 176 158.0, 182 193.0, 188 137.0, 155 142.0, 126 140.0, 157 189.0, 193 217.0, 189 186.0, 224 144.0, 150 179.0, 169 187.0, 173 188.0, 205 197.0, 187 199.0, 200 144.0, 164 177.0, 114 139.0, 160 113.0, 139 156.0, 132 155.0, 163 142.0, 172 192.0, 146 178.0, 204 150.0, 182 208.0, 144 177.0, 204 141.0, 172 200.0, 142 172.0, 199 138.0, 168

id	image	label	deep_features	image_arr
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92 251		cat	[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 9.957555770874023, 0.0, 0.010492861270904541, 0.0, 0.0, 0.0, 0.0, 0.811240017414093, 0.0, 0.0, 1.013407588005066, 0.7120452523231506, 0.0, 0.7152001857757568, 0.0, 0.4609425663948059, 0.0, 0.0, 0.11132454872131348, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 2.3650805950164795, 1.4499244689941406, 0.0, 0.0, 1.1583857536315918, 0.0, 1.0163990259170532, 0.16589725017547607, 0.0, 0.0, 0.20012474060058594, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.18572264909744263,	[99.0, 37 7.0, 98 37.0, 7 101.0, 37 7.0, 102 37.0, 7 97.0, 38 12.0, 97 38.0, 7 97.0, 38 11.0, 88 39.0, 16 94.0, 37 10.0, 97 37.0, 7 95.0, 38 9.0, 98 37.0, 10 97.0, 38 8.0, 98 36.0, 8 93.0, 38 8.0, 92 36.0, 8 93.0, 38 7.0, 94 35.0, 7 95.0, 38 8.0, 98

id	image	label	deep_features	image_arr
			0.0, 0.0, 0.888127863407135, 2.359049081802368, 0.0, 2.381696939468384, 0.26226693391799927, 0.0, 0.0, 0.3055911660194397, 0.0, 0.4779403805732727, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 1.0621445178985596, 0.0, 0.0, 0.2691907286643982, 0.0, 0.0, 0.0, 0.36375147104263306, 0.0, 0.0, 0.0, 0.0, 2.1741693019866943, 0.6600279211997986, 0.0, 1.023432731628418, 0.0, 0.0, 0.0, 0.013233184814453125, 0.0, ...]	36.0, 8 96.0, 36 7.0, 96 35.0, 6 97.0, 34 6.0, 98 34.0, 6 97.0, 36 7.0, 96 37.0, 7 96.0, 36 7.0, 96 36.0, 7 95.0, 34 7.0, 96 35.0, 9 96.0, 35 9.0, 95 34.0, 8 98.0, 37 9.0, 98.0,
93	256	cat	[2.0685906410217285, 0.0, 0.0, 0.0, 0.03301036357879639, 0.0, 10.916821479797363, 0.0, 0.0, 0.0, 0.0, 0.0, 1.6149659156799316, 0.0, 0.0, 0.0, 0.0, 0.9501213431358337, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.1792968511581421, 0.9739130735397339, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 3.09603214263916, 0.0, 0.02696925401687622, 0.0, 0.0, 0.45840537548065186, 0.0, 0.0, 0.0, 0.0, 0.5029691457748413, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.5815311670303345, 0.018475055694580078, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.6431847214698792, 0.0, 0.0,	[27.0, 86 129.0, 15 56.0, 90 21.0, 51 78.0, 86 97.0, 104 122.0, 119 115.0, 136 127.0, 118 126.0, 117 100.0, 97 87.0, 67 115.0, 88 64.0, 188 124.0, 86 133.0, 73 50.0, 46 4.0, 2.0, 40 0.0, 0.0, 36 3.0, 0.0, 53 30.0, 22 88.0, 68 57.0, 59 33.0, 27 31.0, 0.0, 0 32.0, 1.0, 3 30.0, 1.0, 1 27.0, 1.0, 1 23.0, 1.0, 2 21.0, 1.0, 2

id	image	label	deep_features	image_arr
				19.0, 2.0, 0.0,
				15.0, 1.0, 0.0,
				10.0, 0.0, 0.0,
			1.5214838981628418,	37.0, 25.0,
			0.0, 0.0, 0.0,	30.0, 70.0,
			2.8231489658355713,	75.0, 60.0,
			1.78490149974823, 0.0,	79.0, 80.0,
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	69.0, 81.0,
			0.0, 0.0, 0.0,	83.0, 74.0,
			4.078225135803223,	95.0, 90.0,
			0.25593918561935425,	90.0, 95.0,
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	98.0, 90.0,
			0.0, ...]	23.0, 80.0,
				120.0, 110.0,

Now, find the cat images dataset in the test data

```
In [114]: cat_test_data = image_test_data[image_test_data['label'] == 'cat']
```

```
In [115]: cat_test_data
```

```
Out[115]:
```

id	image	label	deep_features	image_array
0	Height: 32 Width: 32	cat	[1.1346900463104248, 0.0, 0.0, 0.0, ...]	[158.0, 112.0, 49.0, 159.0, 111.0, 47.0, ...]
8	Height: 32 Width: 32	cat	[0.0, 0.0, 0.034419238567352295, ...]	[23.0, 19.0, 23.0, 19.0, 21.0, 28.0, 21.0, 16.0, ...]
46	Height: 32 Width: 32	cat	[0.0, 0.0, 0.25575894117355347, ...]	[22.0, 27.0, 19.0, 30.0, 36.0, 26.0, 30.0, 36.0, ...]
53	Height: 32 Width: 32	cat	[0.6107316613197327, 0.0, 0.0, 0.0, 0.0, 0.0, ...]	[255.0, 255.0, 251.0, 249.0, 251.0, 246.0, ...]
61	Height: 32 Width: 32	cat	[0.9359390735626221, 0.0, 0.7783024311065674, 0.0, ...]	[10.0, 10.0, 10.0, 10.0, 10.0, 10.0, 10.0, 10.0, ...]
63	Height: 32 Width: 32	cat	[0.0, 0.0, 0.3594752550125122, 0.0, ...]	[233.0, 225.0, 209.0, 201.0, 170.0, 123.0, ...]
68	Height: 32 Width: 32	cat	[0.7087016105651855, 0.0, 0.0, 0.0, ...]	[61.0, 44.0, 21.0, 55.0, 41.0, 17.0, 58.0, 48.0, ...]
77	Height: 32 Width: 32	cat	[0.2956387400627136, 0.0, 0.0, 0.0, 0.0, 0.0, ...]	[51.0, 49.0, 53.0, 57.0, 56.0, 61.0, 61.0, 61.0, ...]
78	Height: 32 Width: 32	cat	[0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 8.648406982421875, ...]	[38.0, 24.0, 12.0, 50.0, 31.0, 24.0, 37.0, 21.0, ...]
91	Height: 32 Width: 32	cat	[1.2488667964935303, 0.0, 0.0, ...]	[72.0, 75.0, 57.0, 70.0, 74.0, 52.0, 63.0, 67.0, ...]

[1000 rows x 5 columns]

Note: Only the head of the SFrame is printed.

You can use `print_rows(num_rows=m, num_columns=n)` to print more rows and columns.


```
In [116_ # Grab the first image for the cat label in the dataset
cat_first_test_image = cat_test_data[0:1]
```

```
In [117_ cat_first_test_image
```

```
Out[117_ id          image          label          deep_features          image_array
0      Height: 32 Width: 32      cat      [1.1346900463104248, 0.0,
                                         0.0, 0.0, ...      [158.0, 112.0, 49.0,
                                         159.0, 111.0, 47.0, ...
```

[1 rows x 5 columns]

```
In [118_ cat_first_test_image.explore()
```

	id	image	label	deep_features	image_array
				[1.1346900463104248,	[158.0, 112.0,
				0.0, 0.0, 0.0,	49.0, 159.0,
				0.03664976358413696,	111.0, 47.0,
				0.0,	165.0, 116.0,
				9.353598594665527,	51.0, 166.0,
				0.0, 0.0, 0.0, 0.0, 0.0,	118.0, 53.0,
				0.0, 0.0, 0.0,	160.0, 112.0,
				1.3807746171951294,	46.0, 156.0,
				0.19604480266571045,	109.0, 41.0,
				0.49913910031318665,	162.0, 115.0,
				0.0,	47.0, 159.0,
				0.6409578919410706,	113.0, 45.0,
				0.0,	158.0, 111.0,
				0.7487727403640747,	44.0, 159.0,
				0.0, 0.0, 0.0,	113.0, 41.0,
				0.21078139543533325,	161.0, 116.0,
				0.8158698081970215,	41.0, 160.0,
				0.0, 0.0, 0.0, 0.0,	111.0, 52.0,
				0.7258063554763794,	161.0, 111.0,
				0.07810157537460327,	49.0, 166.0,
				0.0, 0.0, 0.0, 0.0, 0.0,	117.0, 41.0,
				0.0,	169.0, 117.0,
				0.5415886640548706,	45.0, 170.0,
				0.0, 0.0,	119.0, 44.0,
				1.3465909957885742,	167.0, 117.0,
				0.0,	40.0, 162.0,
				1.0266674757003784,	113.0, 38.0,
				0.0, 0.0, 0.0,	160.0, 111.0,
				0.18154239654541016,	39.0, 160.0,
				0.0, 0.0, 0.0, 0.0, 0.0,	112.0, 43.0,
				0.0, 0.0,	156.0, 109.0,
				0.48050999641418457,	44.0, 149.0,
				0.0, 0.0, 0.0, 0.0, 0.0,	107.0, 45.0,
				0.0,	150.0, 107.0,
				0.960645318031311,	45.0, 148.0,
				0.9239095449447632,	106.0, 43.0,

id	image	label	deep_features	image_array
			0.0,	149.0, 107.0,
			2.424736261367798,	44.0, 143.0,
			0.0, 0.0, 0.0, 0.0, 0.0,	101.0, 39.0,
			3.5506184101104736,	140.0, 98.0,
			0.0, 0.0,	43.0, 141.0,
			1.3895796537399292,	97.0, 41.0,
			0.0, 0.0, 0.0,	143.0, 97.0,
			0.9751324653625488,	38.0, 137.0,
			0.5319417715072632,	95.0, 36.0,
			0.0, 0.0, 0.0, 0.0, 0.0,	126.0, 91.0,
			0.0, 0.0, 0.0, 0.0, 0.0,	36.0, 116.0,
			1.3387210369110107,	85.0, 33.0,
			0 6500557661056519	152 0 112 0

In [119]: `#query the cat_ds dataset using the above image from the test data for the ca`
`cat_ds_model.query(cat_first_test_image)`

Starting pairwise querying.

```
+-----+-----+-----+-----+
| Query points | # Pairs | % Complete. | Elapsed Time |
+-----+-----+-----+-----+
| 0           | 1       | 0.196464    | 81.184ms     |
| Done        |         | 100         | 493.846ms    |
+-----+-----+-----+-----+
```

Out[119]:

query_label	reference_label	distance	rank
0	16289	34.62371920804245	1
0	45646	36.00687992842462	2
0	32139	36.52008134363789	3
0	25713	36.754850252057054	4
0	331	36.87312281675268	5

[5 rows x 4 columns]

In [120]:

```
#def get_images_from_ids(query_result):
#     return image_data.filter_by(query_result['reference_label'],'id')
def get_nearest_cat_image_from_train_data(query_result):
    return cat_ds.filter_by(query_result['reference_label'],'id')
```


In [121]: `cat_nearest_neighbor_image = get_nearest_cat_image_from_train_data(cat_ds_mod`


Starting pairwise querying.

```
+-----+-----+-----+-----+
| Query points | # Pairs | % Complete. | Elapsed Time |
+-----+-----+-----+-----+
| 0           | 1       | 0.196464    | 71.644ms     |
```


```
| Done          |          | 100          | 398.462ms    |
+-----+-----+-----+-----+
```

```
In [122]: cat_nearest_neighbor_image.explore()
```

	id	image	label	deep_features	image_array
0	331		cat	[0.0, 0.0,	[45.0, 65.0,
				0.5109639167785645,	92.0, 72.0,
				0.0, 0.0, 0.0,	95.0, 110.0,
				11.272439956665039,	106.0, 132.0,
				0.0, 0.0, 0.0, 0.0, 0.0,	129.0, 106.0,
				1.1253304481506348,	132.0, 129.0,
				0.0,	109.0, 134.0,
				0.5219167470932007,	131.0, 111.0,
				0.5971229076385498,	137.0, 134.0,
				0.0,	111.0, 139.0,
				0.6972668170928955,	135.0, 115.0,
				0.0,	145.0, 142.0,
				0.24001091718673706,	91.0, 112.0,
				0.0,	107.0, 85.0,
				1.0731264352798462,	100.0, 96.0,
				0.0, 0.0,	92.0, 113.0,
				0.10970926284790039,	110.0, 84.0,
				0.0, 0.0, 0.0, 0.0, 0.0,	102.0, 99.0,
				0.0, 0.0, 0.0, 0.0, 0.0,	116.0, 141.0,
				0.0, 0.0, 0.0,	138.0, 122.0,
				1.6569366455078125,	148.0, 145.0,
				0.0, 0.0, 0.0, 0.0,	122.0, 148.0,
				1.0214426517486572,	145.0, 123.0,
				0.0, 0.0, 0.0, 0.0, 0.0,	148.0, 145.0,
				0.0, 0.0, 0.0, 0.0, 0.0,	122.0, 148.0,
				0.0,	145.0, 122.0,
				2.2922544479370117,	148.0, 145.0,
				0.0, 0.0, 0.0, 0.0, 0.0,	122.0, 148.0,
				0.0, 0.0,	145.0, 122.0,
				2.8759312629699707,	148.0, 145.0,
				0.8046186566352844,	122.0, 148.0,
				0.0,	145.0, 123.0,
				1.5726779699325562,	148.0, 144.0,
				0.0, 0.0, 0.0, 0.0, 0.0,	123.0, 147.0,
				2.1985647678375244,	144.0, 123.0,
				0.0, 0.0,	147.0, 143.0,
				2.738689422607422,	122.0, 150.0,
				0.0, 0.0, 0.0,	146.0, 108.0,
				0.48699140548706055,	104.0, 113.0,
				0.023147881031036377,	93.0, 45.0,
				0.0,	73.0, 72.0,
				0.16829437017440796,	38.0, 64.0,
				0.0, 0.0, 0.0, 0.0, 0.0,	41.0, 23.0,
				0.0, 0.0, 0.0,	43.0, 23.0,
				0.8470346331596375,	18.0, 24.0,

	id	image	label	deep_features	image_array
				1.0001214742660522, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, ...]	36.0, 31.0, 20.0, 52.0, 44.0, 29.0, 46.0, 67.0, 96.0, 76.0, ...]
1	16289		cat	[0.964287519454956, 0.0, 0.0, 0.0, 1.1251550912857056, 0.0, 9.312150955200195, 0.0, 0.0, 0.0, 0.0, 0.0, 1.9964497089385986, 0.20313739776611328, 0.0, 1.9780253171920776, 0.8170939683914185, 0.0, 0.0, 0.0, 0.0, 1.7009224891662598, 0.5013698935508728, 0.0, 0.0, 0.0, 1.9672785997390747, 0.0, 0.0, 0.0, 0.0, 1.1179927587509155, 0.12306243181228638, 0.0, 0.0, 0.013147711753845215, 0.0, 0.0, 1.0392909049987793, 0.9930934309959412, 0.0, 0.0, 0.22333812713623047, 0.009367823600769043, 0.0, 0.0, 0.0, 0.0, 0.13046950101852417, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.5344581604003906, 0.0, 0.0, 0.0, 1.211628794670105, 0.0, 0.0, 0.6291561126708984, 0.35370469093322754, 0.5080443620681763, 2.374500274658203, 0.0, 0.0, 0.0, 0.0, 0.0, 0.6534329056739807, 0.0, 0.0, 2.430657386779785, 0.0, 0.0, 0.0, 0.11062061786651611, 0.4345150589942932, 0.0, 0.0,	[215.0, 219.0, 231.0, 215.0, 219.0, 232.0, 216.0, 219.0, 233.0, 214.0, 217.0, 230.0, 213.0, 216.0, 230.0, 209.0, 215.0, 226.0, 208.0, 217.0, 221.0, 206.0, 215.0, 219.0, 201.0, 208.0, 217.0, 197.0, 203.0, 218.0, 194.0, 200.0, 221.0, 199.0, 204.0, 221.0, 142.0, 128.0, 131.0, 76.0, 46.0, 46.0, 81.0, 55.0, 57.0, 147.0, 136.0, 139.0, 160.0, 149.0, 154.0, 152.0, 141.0, 144.0, 156.0, 147.0, 150.0, 159.0, 148.0, 154.0, 160.0, 153.0, 157.0, 164.0, 156.0, 160.0, 160.0, 154.0, 158.0, 158.0, 151.0, 156.0, 159.0, 149.0, 157.0, 159.0, 150.0, 156.0, 157.0, 147.0, 154.0, 156.0, 145.0, 153.0, 152.0, 142.0, 149.0, 147.0, 137.0, 143.0, 141.0, 131.0, 136.0, 142.0,

id	image	label	deep_features	image_array
			0.1659744381904602, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.025784790515899658, 0.5490762591362, 0.21386826038360596, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, ...]	131.0, 136.0, 215.0, 219.0, 231.0, 215.0, ...]
2	25713	cat	[0.5369712710380554, 0.0, 0.0, 0.08944588899612427, 0.2364743947982788, 0.3688161373138428, 9.64945125579834, 0.0, 0.0, 0.0, 0.0, 0.0, 1.345590353012085, 0.7391354441642761, 0.0, 0.0, 0.4072381854057312, 0.8558321595191956, 0.0, 0.0, 0.0, 1.1061797142028809, 0.0, 0.0, 0.0, 0.13240057229995728, 0.1410961151123047, 0.0, 0.0, 0.0, 0.0, 0.7048135995864868, 0.0, 0.0, 0.0, 0.24006950855255127, 0.0, 0.0, 0.6994016766548157, 1.6008036136627197, 0.0, 0.0, 0.0, 0.0, 0.23141270875930786, 0.0, 0.0, 0.0, 0.9568823575973511, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.04671293497085571, 0.0, 0.6259481906890869, 0.0, 0.0, 2.228186845779419, 0.0, 0.0, 0.0683944821357727, 0.0, 0.0, 0.8954511880874634, 0.0, 0.0, 1.9295697212219238, 0.0, 0.0, 0.0, 1.2897069454193115,	[228.0, 222.0, 236.0, 224.0, 213.0, 222.0, 212.0, 206.0, 207.0, 209.0, 202.0, 202.0, 210.0, 198.0, 199.0, 212.0, 199.0, 196.0, 203.0, 187.0, 181.0, 134.0, 116.0, 104.0, 137.0, 111.0, 87.0, 165.0, 132.0, 98.0, 170.0, 137.0, 99.0, 166.0, 132.0, 99.0, 181.0, 137.0, 124.0, 209.0, 189.0, 185.0, 199.0, 194.0, 195.0, 197.0, 188.0, 189.0, 199.0, 188.0, 186.0, 196.0, 186.0, 184.0, 193.0, 183.0, 181.0, 191.0, 181.0, 179.0, 185.0, 180.0, 176.0, 190.0, 171.0, 172.0, 173.0, 134.0, 142.0, 183.0, 148.0, 154.0, 179.0, 148.0, 152.0, 174.0, 139.0, 145.0, 174.0, 145.0, 149.0, 161.0, 141.0, 143.0, 159.0, 146.0, 143.0, 141.0,

id		image	label	deep_features	image_array
				0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.011481404304504395, 0.0, 0.0, 0.0, 0.0, 1.0821210145950317, 0.0, 1.7598038911819458, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, ...]	129.0, 123.0, 87.0, 73.0, 71.0, 50.0, 43.0, 44.0, 233.0, 228.0, 241.0, 224.0, ...]
3	32139		cat	[1.2940946817398071, 0.0, 0.0, 0.5138002634048462, 0.10639220476150513, 0.1446278691291809, 10.140267372131348, 0.0, 0.0, 0.0, 0.0, 0.0, 0.9555401802062988, 0.0, 0.0, 2.1158101558685303, 1.1705187559127808, 0.6677833795547485, 1.98772132396698, 0.8457062244415283, 0.0, 0.5588163137435913, 0.9472996592521667, 0.0, 0.0, 0.012801527976989746, 0.0, 0.0, 0.0, 0.0, 0.0, 2.178612232208252, 0.31960469484329224, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 1.32429838180542, 0.0, 0.0, 0.35194075107574463, 0.0, 1.3836069107055664, 0.0, 0.0, 0.0, 1.824205756187439, 0.0, 0.0, 0.0, 0.0, 0.0, 0.307547390460968, 0.0, 1.1079696416854858, 0.0, 0.0, 0.0, 0.8558799028396606, 0.0, 0.0, 0.9826311469078064, 0.7941820621490479, 0.0, 1.063296914100647, 0.0, 0.0, 0.16845232248306274,	[217.0, 220.0, 205.0, 221.0, 227.0, 218.0, 195.0, 209.0, 205.0, 156.0, 176.0, 170.0, 150.0, 163.0, 149.0, 128.0, 138.0, 125.0, 124.0, 129.0, 121.0, 164.0, 165.0, 157.0, 228.0, 228.0, 224.0, 235.0, 239.0, 239.0, 214.0, 225.0, 223.0, 176.0, 196.0, 195.0, 196.0, 223.0, 228.0, 204.0, 228.0, 240.0, 216.0, 229.0, 237.0, 217.0, 217.0, 215.0, 235.0, 232.0, 228.0, 236.0, 239.0, 238.0, 236.0, 237.0, 239.0, 234.0, 236.0, 241.0, 216.0, 227.0, 234.0, 193.0, 214.0, 223.0, 182.0, 209.0, 218.0, 180.0, 209.0, 213.0, 189.0, 223.0, 229.0, 200.0, 233.0, 242.0, 212.0, 235.0, 238.0, 224.0, 236.0, 232.0, 227.0, 231.0,

id	image	label	deep_features	image_array
			0.35178589820861816, 0.0, 2.065922975540161, 0.0, 0.0, 2.7262861728668213, 0.0, 0.0, 0.0, 1.270354986190796, 0.0, 0.0, 0.0, 0.0, 1.1070209741592407, 0.019249558448791504, 0.0, 0.0, 0.0, 0.0, 0.0, 1.3375438451766968, 0.3137577772140503, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, ...]	230.0, 226.0, 230.0, 229.0, 226.0, 230.0, 229.0, 222.0, 227.0, 226.0, 222.0, 235.0, 221.0, 228.0, ...]
4	45646	cat	[0.9836775064468384, 0.0, 0.0, 0.0, 0.0, 0.19208455085754395, 9.89628791809082, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.2129918336868286, 3.083840847015381, 0.09621626138687134, 0.6561030149459839, 0.0, 0.0, 0.0, 0.1017729640007019, 0.0, 0.0, 0.06048959493637085, 0.13559776544570923, 0.9450205564498901, 0.0, 0.0, 0.0, 1.1398426294326782, 2.3693294525146484, 0.0, 0.0, 0.0, 0.9844647645950317, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.15942686796188354, 0.18626517057418823, 0.0, 0.9405862092971802, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 1.171266794204712, 0.0, 0.0, 0.2348191738128662, 0.0, 0.0, 0.7265492677688599, 0.0, 0.0, 0.0, 0.0, 0.0, 2.88093638420105 0 0	[51.0, 42.0, 26.0, 56.0, 47.0, 31.0, 59.0, 50.0, 34.0, 60.0, 50.0, 34.0, 63.0, 53.0, 37.0, 64.0, 55.0, 38.0, 64.0, 56.0, 37.0, 68.0, 60.0, 41.0, 71.0, 63.0, 45.0, 72.0, 64.0, 45.0, 73.0, 64.0, 46.0, 75.0, 67.0, 49.0, 77.0, 69.0, 50.0, 79.0, 70.0, 52.0, 79.0, 71.0, 53.0, 78.0, 70.0, 52.0, 71.0, 61.0, 42.0, 35.0, 21.0, 11.0, 25.0, 10.0, 4.0, 59.0, 48.0, 32.0, 118.0, 115.0, 93.0, 122.0, 123.0, 106.0, 76.0, 69.0, 51.0, 79.0, 70.0, 51.0, 78.0, 70.0,

In []:


Of the images below, which is the nearest 'dog' labeled image in the training data to the the first image in the test data (image_test[0:1])?

In [123_

```
## find the first dog image
dog_first_test_image = image_test_data[image_test_data['label'] == 'dog'][0:1]
```

In [124_

```
dog_first_test_image.explore()
```

	id	image	label	deep_features	image_array
				[0.3223174810409546, 0.0, 1.2493335008621216, 0.0, 0.0, 0.0, 9.108221054077148, 0.0, 0.0, 0.0, 0.0, 0.0, 2.267735719680786, 0.0, 0.2844046950340271, 0.23577803373336792, 0.0, 0.7194756865501404, 0.0, 0.0, 0.0, 0.8485043048858643, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.48348742723464966, 0.14677613973617554, 0.0, 0.0, 0.0, 0.0, 0.0, 1.3772846460342407, 1.5837881565093994, 0.0, 0.0, 0.42062896490097046, 1.1075553894042969, 0.38842594623565674, 0.0, 0.0, 0.0, 1.0785493850708008, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.9691900610923767, 1.0344531536102295, 0.0, 2.090207815170288, 0.0, 0.0, 0.0, 0.0, 0.0, 0.9877524375915527, 0.0, 0.0,	[91.0, 64.0, 30.0, 82.0, 58.0, 30.0, 87.0, 73.0, 59.0, 89.0, 87.0, 83.0, 95.0, 92.0, 80.0, 98.0, 90.0, 71.0, 97.0, 87.0, 68.0, 94.0, 90.0, 75.0, 92.0, 93.0, 84.0, 98.0, 94.0, 85.0, 81.0, 76.0, 66.0, 28.0, 26.0, 19.0, 15.0, 15.0, 10.0, 18.0, 19.0, 16.0, 19.0, 19.0, 20.0, 19.0, 19.0, 20.0, 16.0, 16.0, 17.0, 15.0, 15.0, 16.0, 13.0, 15.0, 13.0, 10.0, 16.0, 8.0, 10.0, 14.0, 10.0, 13.0, 13.0, 12.0, 15.0, 14.0, 8.0, 26.0, 24.0, 12.0, 29.0, 25.0,
0	12		dog		

id	image	label	deep_features	image_array
			0.9878638386726379,	15.0, 26.0,
			0.0, 0.0, 0.0,	21.0, 12.0,
			1.6905778646469116,	39.0, 34.0,
			0.0, 0.0, 0.0, 0.0,	25.0, 25.0,
			0.5074614882469177,	20.0, 11.0,
			0.0, 0.0, 0.0, 0.0,	18.0, 13.0,
			0.0,	6.0, 22.0,
			3.7489962577819824,	13.0, 13.0,
			0.8815674185752869,	22.0, 15.0,
			0.1257283091545105,	13.0, 18.0,
			0.31939470767974854	13.0, 10.0

```
In [125_]: ## querying the knn model
dog_ds_model.query(dog_first_test_image)
```

Starting pairwise querying.

```
+-----+-----+-----+-----+
| Query points | # Pairs | % Complete. | Elapsed Time |
+-----+-----+-----+-----+
| 0            | 1        | 0.196464    | 116.382ms    |
| Done         |          | 100         | 436.339ms    |
+-----+-----+-----+-----+
```

```
Out[125_]: query_label  reference_label  distance  rank
           0           49803    33.47735903726341    1
           0           21235    34.41522159902278    2
           0           23803    34.813863006141204    3
           0           41752    34.928931346762944    4
           0           13865    37.154640919350605    5
```

[5 rows x 4 columns]


```
In [126_]: def get_dog_image_from_train_data(query_result):
           return dog_ds.filter_by(query_result['reference_label'], 'id')
```


```
In [127_]: nearest_neighbors_for_first_dog_image = get_dog_image_from_train_data(dog_ds_
```

Starting pairwise querying.


```
+-----+-----+-----+-----+
| Query points | # Pairs | % Complete. | Elapsed Time |
+-----+-----+-----+-----+
| 0            | 1        | 0.196464    | 95.426ms     |
| Done         |          | 100         | 413.675ms    |
+-----+-----+-----+-----+
```


```
In [128_ nearest_neighbors_for_first_dog_image.explore()]
```

	id	image	label	deep_features	image_arra
					[153.0, 158.0, 151.0, 151.0, 155.0, 149.0, 157.0, 162.0, 155.0, 155.0, 156.0, 150.0, 188.0, 186.0, 181.0, 195.0, 188.0, 185.0, 186.0, 176.0, 174.0, 178.0, 168.0, 164.0, 185.0, 176.0, 169.0, 189.0, 180.0, 173.0, 188.0, 179.0, 172.0, 164.0, 154.0, 146.0, 162.0, 149.0, 140.0, 165.0, 152.0, 143.0, 170.0, 157.0, 148.0, 172.0, 159.0, 150.0, 170.0, 154.0, 146.0, 164.0, 147.0, 139.0, 169.0, 152.0, 144.0, 160.0, 144.0, 136.0, 153.0, 137.0, 129.0, 166.0, 150.0, 142.0, 171.0, 154.0, 146.0, 173.0, 156.0, 148.0, 169.0, 152.0, 145.0, 167.0, 149.0, 144.0, 168.0, 151.0, 146.0, 172.0, 155.0, 150.0, 172.0, 156.0, 151.0, 167.0, 154.0, 149.0, 166.0, 153.0, 151.0, 146.0, 132.0, 134.0]
0	13865		dog	[1.4060840606689453, 0.0, 0.0, 0.0, 0.0, 0.0, 9.443161010742188, 0.0, 0.0, 0.0, 0.0, 0.0, 0.920834481716156, 0.4115474820137024, 0.0, 1.0219343900680542, 0.0, 0.4223434329032898, 0.0, 1.1409707069396973, 0.0, 1.9987728595733643, 0.0, 0.27742838859558105, 0.33181703090667725, 0.0, 0.2610653042793274, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 1.4875035285949707, 1.651899814605713, 0.0, 0.0, 0.6660845875740051, 0.0, 0.2745617628097534, 0.0, 0.0, 1.9739699363708496, 0.0, 0.0, 0.0, 0.0, 0.0, 0.7300443649291992, 0.0, 0.0, 2.1456897258758545, 0.0, 0.0, 0.0, 1.0993547439575195, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 1.8051166534423828, 0.0, 0.8043360710144043, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, ...]	

	id	image	label	deep_features	image_arra
					147.0, 152.0 145.0, 134.0 ..
1	21235		dog	[0.0, 0.0, 0.44154036045074463, 0.0, 0.41361474990844727, 0.0, 9.163509368896484, 0.0, 0.0, 0.0, 0.0, 0.0, 2.0331881046295166, 0.0, 0.0, 0.9150774478912354, 0.0, 0.47145506739616394, 0.0, 0.0, 0.0, 2.5820305347442627, 0.04698371887207031, 0.0, 0.0, 0.22564756870269775, 1.3913302421569824, 0.0, 0.0, 0.0, 0.0, 0.00031757354736328125, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 1.4516637325286865, 2.788264751434326, 0.0, 0.0, 0.0028322935104370117, 0.8529324531555176, 0.0, 1.3450219631195068, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.037928760051727295, 0.0, 0.150581955909729, 0.9631999731063843, 0.0, 0.9084357023239136, 0.0, 0.0, 0.0, 0.0, 0.0, 0.9873044490814209, 0.0, 0.0, 1.0540813207626343, 0.0, 0.0, 0.0, 1.665440320968628, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 1.7936997413635254, 0.504639208316803, 0.8971332311630249, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, ...]	[173.0, 182.0 140.0, 171.0 182.0, 141.0 169.0, 184.0 139.0, 186.0 191.0, 150.0 201.0, 192.0 150.0, 195.0 197.0, 162.0 191.0, 197.0 169.0, 180.0 189.0, 158.0 174.0, 183.0 147.0, 175.0 180.0, 139.0 171.0, 180.0 137.0, 172.0 184.0, 144.0 166.0, 180.0 140.0, 160.0 175.0, 130.0 157.0, 172.0 127.0, 155.0 169.0, 125.0 157.0, 170.0 123.0, 163.0 175.0, 129.0 174.0, 187.0 146.0, 176.0 190.0, 151.0 170.0, 184.0 143.0, 168.0 183.0, 141.0 167.0, 182.0 137.0, 168.0 183.0, 137.0 170.0, 185.0 138.0, 171.0 186.0, 139.0 170.0, 184.0 137.0, 170.0 182.0, 133.0 164.0, 176.0 128.0, 171.0 184.0, 140.0 171.0, 184.0 139.0, 162.0 172.0, 130.0 163.0, 176.0]

id	image	label	deep_features	image_arra
				129.0, 167.0
				..
				[68.0, 86.0
				89.0, 149.0
				143.0, 135.0
				216.0, 170.0
				153.0, 178.0
			[0.9536850452423096,	123.0, 107.0
			0.0, 0.1610458493232727,	128.0, 89.0
			0.0, 0.0, 0.0,	77.0, 46.0
			9.349893569946289, 0.0,	34.0, 23.0
			0.0, 0.0, 0.0, 0.0,	16.0, 35.0
			1.287095069885254,	29.0, 25.0
			0.653606116771698, 0.0,	50.0, 49.0
			0.10148799419403076,	51.0, 63.0
			0.0, 0.0, 0.0, 0.0, 0.0,	60.0, 98.0
			1.7766849994659424, 0.0,	99.0, 86.0
			0.0, 0.0, 0.0,	164.0, 136.0
			0.5929739475250244, 0.0,	120.0, 233.0
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	186.0, 178.0
			0.0, 0.0, 0.0, 0.0,	225.0, 166.0
			1.4049139022827148,	166.0, 216.0
			2.1135458946228027, 0.0,	151.0, 151.0
			0.0, 0.0, 0.0,	195.0, 131.0
			0.06916093826293945,	126.0, 172.0
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	109.0, 100.0
			0.0, 0.0, 0.0,	154.0, 91.0
2	23803	dog	0.33661842346191406,	81.0, 148.0
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	90.0, 81.0
			0.0, 0.0,	145.0, 90.0
			0.70735764503479, 0.0,	83.0, 135.0
			0.0, 0.5366054773330688,	82.0, 75.0
			0.0, 0.0, 0.0, 0.0, 0.0,	129.0, 75.0
			1.5121982097625732, 0.0,	69.0, 134.0
			0.0, 1.574056625366211,	81.0, 70.0
			0.0,	117.0, 69.0
			0.023190021514892578,	60.0, 73.0
			0.0, 2.279015302658081,	54.0, 54.0
			1.0742301940917969, 0.0,	55.0, 74.0
			0.0, 0.0, 0.0, 0.0,	78.0, 57.0
			0.339158833026886, 0.0,	90.0, 83.0
			0.0, 0.0, 0.0,	65.0, 86.0
			2.155811309814453,	83.0, 130.0
			1.7265483140945435,	138.0, 141.0
			0.3275981545448303, 0.0,	153.0, 166.0
			0.0, 0.0, 0.0,	171.0, 103.0
			0.4277494549751282, 0.0,	129.0, 145.0
			...]	90.0, 119.0
				139.0, 78.0
				102.0, 96.0
				100.0, 138.0
				130.0, 168.0

id	image	label	deep_features	image_arra
				..
				[99.0, 80.0, 73.0, 81.0, 67.0, 58.0, 66.0, 57.0, 47.0, 82.0, 75.0, 64.0, 95.0, 89.0, 75.0, 99.0, 90.0, 74.0, [0.12017947435379028, 0.0, 0.0, 0.0, 0.0, 0.0, 9.419925689697266, 0.0, 0.0, 0.0, 0.0, 0.0, 1.2478911876678467, 0.0, 0.0, 0.4574007987976074, 0.0, 1.074859857559204, 0.0, 0.0, 0.0, 2.2665276527404785, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 2.3960578441619873, 0.487421452999115, 0.0, 0.0, 0.0, 1.361000657081604, 0.0, 1.0693824291229248, 0.0, 0.040252685546875, 0.0, 0.0, 0.0, 0.0, 0.0, 1.221431016921997, 0.0, 0.0, 1.326383113861084, 0.0, 0.0, 0.0, 0.972682774066925, 1.3328442573547363, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 2.678858518600464, 2.2226145267486572, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, ...] 46.0, 45.0, 50.0, 48.0, 45.0, 61.0, 60.0, 53.0, 67.0, 65.0, 57.0, 66.0, 64.0, 57.0, 95.0, 75.0, 67.0, 80.0, ..
3	41752		dog	

id	image	label	deep_features	image_arra
4 49803		dog	[0.0, 0.0, 0.0, 0.0,	[55.0, 50.0,
			0.09006905555725098,	45.0, 56.0,
			0.0, 9.839686393737793,	52.0, 44.0,
			0.0, 0.0, 0.0, 0.0, 0.0,	63.0, 59.0,
			1.7384731769561768,	49.0, 57.0,
			1.549820065498352, 0.0,	59.0, 47.0,
			0.8056789040565491, 0.0,	44.0, 56.0,
			0.31037431955337524,	41.0, 41.0,
			0.0, 0.0, 0.0,	59.0, 42.0,
			1.6887820959091187, 0.0,	44.0, 61.0,
			0.0, 0.0, 0.0,	45.0, 47.0,
			0.8720174431800842, 0.0,	56.0, 41.0,
			0.0, 0.0, 0.0, 0.0,	105.0, 96.0,
			0.27318936586380005,	80.0, 181.0,
			0.0, 0.0, 0.0, 0.0, 0.0,	167.0, 147.0,
			1.2632567882537842,	67.0, 71.0,
			2.2394003868103027, 0.0,	55.0, 38.0,
			0.0, 0.0, 0.0,	45.0, 39.0,
			0.2681935429573059,	44.0, 47.0,
			0.3423669934272766, 0.0,	36.0, 39.0,
			0.0,	42.0, 30.0,
			0.08431744575500488,	35.0, 39.0,
			0.0, 0.0, 0.0, 0.0, 0.0,	26.0, 39.0,
			0.01635885238647461,	41.0, 30.0,
			0.0, 0.0, 0.0, 0.0, 0.0,	70.0, 52.0,
			0.0, 0.0, 0.0,	60.0, 89.0,
			1.1576050519943237, 0.0,	66.0, 77.0,
			2.6718220710754395, 0.0,	66.0, 63.0,
			0.0, 0.0, 0.0, 0.0,	59.0, 67.0,
			1.7748336791992188, 0.0,	62.0, 54.0,
0.0, 2.0382702350616455,	82.0, 63.0,			
0.0, 0.0, 0.0,	63.0, 72.0,			
0.7331638932228088, 0.0,	55.0, 52.0,			
	69.0, 56.0,			
	49.0, 87.0,			
	77.0, 72.0,			
	108.0, 97.0,			

For the first image in the test data, in what range is the mean distance between this image and its 5 nearest neighbors that were labeled 'cat' in the training data?

```
In [129]: #show_neighbors = lambda i: get_images_from_ids(knn_model.query(image_data[i]:
cat_show_neighbors = lambda i: get_nearest_cat_image_from_train_data(cat_ds_m
```

```
In [130]: cat_show_neighbors(5)
```


Starting pairwise querying.


```
+-----+-----+-----+-----+
| Query points | # Pairs | % Complete. | Elapsed Time |
```

```


+-----+-----+-----+-----+
| 0          | 1          | 0.196464   | 109.567ms  |
| Done       |            | 100        | 489.977ms  |
+-----+-----+-----+-----+


```

	id	image	label	deep_features	image_array
0	331		cat	[0.0, 0.0, 0.5109639167785645, 0.0, 0.0, 0.0, 11.272439956665039, 0.0, 0.0, 0.0, 0.0, 0.0, 1.1253304481506348, 0.0, 0.5219167470932007, 0.5971229076385498, 0.0, 0.6972668170928955, 0.0, 0.24001091718673706, 0.0, 1.0731264352798462, 0.0, 0.0, 0.10970926284790039, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 1.6569366455078125, 0.0, 0.0, 0.0, 0.0, 1.0214426517486572, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 2.2922544479370117, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 2.8759312629699707, 0.8046186566352844, 0.0, 1.5726779699325562, 0.0, 0.0, 0.0, 0.0, 0.0, 2.1985647678375244, 0.0, 0.0, 2.738689422607422, 0.0, 0.0, 0.0, 0.48699140548706055, 0.023147881031036377, 0.0, 0.16829437017440796, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.8470346331596375,	[45.0, 65.0, 92.0, 72.0, 95.0, 110.0, 106.0, 132.0, 129.0, 106.0, 132.0, 129.0, 109.0, 134.0, 131.0, 111.0, 137.0, 134.0, 111.0, 139.0, 135.0, 115.0, 145.0, 142.0, 91.0, 112.0, 107.0, 85.0, 100.0, 96.0, 92.0, 113.0, 110.0, 84.0, 102.0, 99.0, 116.0, 141.0, 138.0, 122.0, 148.0, 145.0, 122.0, 148.0, 145.0, 123.0, 148.0, 145.0, 122.0, 148.0, 145.0, 122.0, 148.0, 145.0, 122.0, 148.0, 145.0, 122.0, 148.0, 145.0, 122.0, 148.0, 145.0, 123.0, 148.0, 144.0, 123.0, 147.0, 144.0, 123.0, 147.0, 143.0, 122.0, 150.0, 146.0, 108.0, 104.0, 113.0, 93.0, 45.0, 73.0, 72.0, 38.0, 64.0, 41.0, 23.0, 43.0, 23.0, 18.0, 24.0,

	id	image	label	deep_features	image_array
				1.0001214742660522, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, ...]	36.0, 31.0, 20.0, 52.0, 44.0, 29.0, 46.0, 67.0, 96.0, 76.0, ...]
1	16289		cat	[0.964287519454956, 0.0, 0.0, 0.0, 1.1251550912857056, 0.0, 9.312150955200195, 0.0, 0.0, 0.0, 0.0, 0.0, 1.9964497089385986, 0.20313739776611328, 0.0, 1.9780253171920776, 0.8170939683914185, 0.0, 0.0, 0.0, 0.0, 1.7009224891662598, 0.5013698935508728, 0.0, 0.0, 0.0, 1.9672785997390747, 0.0, 0.0, 0.0, 0.0, 1.1179927587509155, 0.12306243181228638, 0.0, 0.0, 0.013147711753845215, 0.0, 0.0, 1.0392909049987793, 0.9930934309959412, 0.0, 0.0, 0.22333812713623047, 0.009367823600769043, 0.0, 0.0, 0.0, 0.0, 0.13046950101852417, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.5344581604003906, 0.0, 0.0, 0.0, 1.211628794670105, 0.0, 0.0, 0.6291561126708984, 0.35370469093322754, 0.5080443620681763, 2.374500274658203, 0.0, 0.0, 0.0, 0.0, 0.0, 0.6534329056739807, 0.0, 0.0, 2.430657386779785, 0.0, 0.0, 0.0, 0.11062061786651611, 0.4345150589942932, 0.0, 0.0,	[215.0, 219.0, 231.0, 215.0, 219.0, 232.0, 216.0, 219.0, 233.0, 214.0, 217.0, 230.0, 213.0, 216.0, 230.0, 209.0, 215.0, 226.0, 208.0, 217.0, 221.0, 206.0, 215.0, 219.0, 201.0, 208.0, 217.0, 197.0, 203.0, 218.0, 194.0, 200.0, 221.0, 199.0, 204.0, 221.0, 142.0, 128.0, 131.0, 76.0, 46.0, 46.0, 81.0, 55.0, 57.0, 147.0, 136.0, 139.0, 160.0, 149.0, 154.0, 152.0, 141.0, 144.0, 156.0, 147.0, 150.0, 159.0, 148.0, 154.0, 160.0, 153.0, 157.0, 164.0, 156.0, 160.0, 160.0, 154.0, 158.0, 158.0, 151.0, 156.0, 159.0, 149.0, 157.0, 159.0, 150.0, 156.0, 157.0, 147.0, 154.0, 156.0, 145.0, 153.0, 152.0, 142.0, 149.0, 147.0, 137.0, 143.0, 141.0, 131.0, 136.0, 142.0,

id	image	label	deep_features	image_array
			0.1659744381904602, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.025784790515899658, 0.5490762591362, 0.21386826038360596, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, ...]	131.0, 136.0, 215.0, 219.0, 231.0, 215.0, ...]
2	25713	cat	[0.5369712710380554, 0.0, 0.0, 0.08944588899612427, 0.2364743947982788, 0.3688161373138428, 9.64945125579834, 0.0, 0.0, 0.0, 0.0, 0.0, 1.345590353012085, 0.7391354441642761, 0.0, 0.0, 0.4072381854057312, 0.8558321595191956, 0.0, 0.0, 0.0, 1.1061797142028809, 0.0, 0.0, 0.0, 0.13240057229995728, 0.1410961151123047, 0.0, 0.0, 0.0, 0.0, 0.7048135995864868, 0.0, 0.0, 0.0, 0.24006950855255127, 0.0, 0.0, 0.6994016766548157, 1.6008036136627197, 0.0, 0.0, 0.0, 0.0, 0.23141270875930786, 0.0, 0.0, 0.0, 0.9568823575973511, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.04671293497085571, 0.0, 0.6259481906890869, 0.0, 0.0, 2.228186845779419, 0.0, 0.0, 0.0683944821357727, 0.0, 0.0, 0.8954511880874634, 0.0, 0.0, 1.9295697212219238, 0.0, 0.0, 0.0, 1.2897069454193115,	[228.0, 222.0, 236.0, 224.0, 213.0, 222.0, 212.0, 206.0, 207.0, 209.0, 202.0, 202.0, 210.0, 198.0, 199.0, 212.0, 199.0, 196.0, 203.0, 187.0, 181.0, 134.0, 116.0, 104.0, 137.0, 111.0, 87.0, 165.0, 132.0, 98.0, 170.0, 137.0, 99.0, 166.0, 132.0, 99.0, 181.0, 137.0, 124.0, 209.0, 189.0, 185.0, 199.0, 194.0, 195.0, 197.0, 188.0, 189.0, 199.0, 188.0, 186.0, 196.0, 186.0, 184.0, 193.0, 183.0, 181.0, 191.0, 181.0, 179.0, 185.0, 180.0, 176.0, 190.0, 171.0, 172.0, 173.0, 134.0, 142.0, 183.0, 148.0, 154.0, 179.0, 148.0, 152.0, 174.0, 139.0, 145.0, 174.0, 145.0, 149.0, 161.0, 141.0, 143.0, 159.0, 146.0, 143.0, 141.0,

id	image	label	deep_features	image_array	
			0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.011481404304504395, 0.0, 0.0, 0.0, 0.0, 1.0821210145950317, 0.0, 1.7598038911819458, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, ...]	129.0, 123.0, 87.0, 73.0, 71.0, 50.0, 43.0, 44.0, 233.0, 228.0, 241.0, 224.0, ...]	
3	32139		cat	[1.2940946817398071, 0.0, 0.0, 0.5138002634048462, 0.10639220476150513, 0.1446278691291809, 10.140267372131348, 0.0, 0.0, 0.0, 0.0, 0.0, 0.9555401802062988, 0.0, 0.0, 2.1158101558685303, 1.1705187559127808, 0.6677833795547485, 1.98772132396698, 0.8457062244415283, 0.0, 0.5588163137435913, 0.9472996592521667, 0.0, 0.0, 0.012801527976989746, 0.0, 0.0, 0.0, 0.0, 0.0, 2.178612232208252, 0.31960469484329224, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 1.32429838180542, 0.0, 0.0, 0.35194075107574463, 0.0, 1.3836069107055664, 0.0, 0.0, 0.0, 1.824205756187439, 0.0, 0.0, 0.0, 0.0, 0.0, 0.307547390460968, 0.0, 1.1079696416854858, 0.0, 0.0, 0.0, 0.8558799028396606, 0.0, 0.0, 0.9826311469078064, 0.7941820621490479, 0.0, 1.063296914100647, 0.0, 0.0, 0.16845232248306274,	[217.0, 220.0, 205.0, 221.0, 227.0, 218.0, 195.0, 209.0, 205.0, 156.0, 176.0, 170.0, 150.0, 163.0, 149.0, 128.0, 138.0, 125.0, 124.0, 129.0, 121.0, 164.0, 165.0, 157.0, 228.0, 228.0, 224.0, 235.0, 239.0, 239.0, 214.0, 225.0, 223.0, 176.0, 196.0, 195.0, 196.0, 223.0, 228.0, 204.0, 228.0, 240.0, 216.0, 229.0, 237.0, 217.0, 217.0, 215.0, 235.0, 232.0, 228.0, 236.0, 239.0, 238.0, 236.0, 237.0, 239.0, 234.0, 236.0, 241.0, 216.0, 227.0, 234.0, 193.0, 214.0, 223.0, 182.0, 209.0, 218.0, 180.0, 209.0, 213.0, 189.0, 223.0, 229.0, 200.0, 233.0, 242.0, 212.0, 235.0, 238.0, 224.0, 236.0, 232.0, 227.0, 231.0,

	id	image	label	deep_features	image_array
				0.35178589820861816, 0.0, 2.065922975540161, 0.0, 0.0, 2.7262861728668213, 0.0, 0.0, 0.0, 1.270354986190796, 0.0, 0.0, 0.0, 0.0, 1.1070209741592407, 0.019249558448791504, 0.0, 0.0, 0.0, 0.0, 0.0, 1.3375438451766968, 0.3137577772140503, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, ...]	230.0, 226.0, 230.0, 229.0, 226.0, 230.0, 229.0, 222.0, 227.0, 226.0, 222.0, 235.0, 221.0, 228.0, ...]
4	45646		cat	[0.9836775064468384, 0.0, 0.0, 0.0, 0.0, 0.19208455085754395, 9.89628791809082, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.2129918336868286, 3.083840847015381, 0.09621626138687134, 0.6561030149459839, 0.0, 0.0, 0.0, 0.1017729640007019, 0.0, 0.0, 0.06048959493637085, 0.13559776544570923, 0.9450205564498901, 0.0, 0.0, 0.0, 1.1398426294326782, 2.3693294525146484, 0.0, 0.0, 0.0, 0.9844647645950317, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.15942686796188354, 0.18626517057418823, 0.0, 0.9405862092971802, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 1.171266794204712, 0.0, 0.0, 0.2348191738128662, 0.0, 0.0, 0.7265492677688599, 0.0, 0.0, 0.0, 0.0, 0.0, 2.88093638420105, 0.0, 51.0, 70.0,	[51.0, 42.0, 26.0, 56.0, 47.0, 31.0, 59.0, 50.0, 34.0, 60.0, 50.0, 34.0, 63.0, 53.0, 37.0, 64.0, 55.0, 38.0, 64.0, 56.0, 37.0, 68.0, 60.0, 41.0, 71.0, 63.0, 45.0, 72.0, 64.0, 45.0, 73.0, 64.0, 46.0, 75.0, 67.0, 49.0, 77.0, 69.0, 50.0, 79.0, 70.0, 52.0, 79.0, 71.0, 53.0, 78.0, 70.0, 52.0, 71.0, 61.0, 42.0, 35.0, 21.0, 11.0, 25.0, 10.0, 4.0, 59.0, 48.0, 32.0, 118.0, 115.0, 93.0, 122.0, 123.0, 106.0, 76.0, 69.0, 51.0, 79.0, 70.0, 51.0, 78.0, 70.0, 51.0, 70.0,

```
In [131_ cat_ds_model.query(cat_first_test_image)
```

Starting pairwise querying.

```
+-----+-----+-----+-----+
| Query points | # Pairs | % Complete. | Elapsed Time |
+-----+-----+-----+-----+
| 0            | 1        | 0.196464    | 101.892ms    |
| Done         |          | 100         | 444.362ms    |
+-----+-----+-----+-----+
```

```
Out[131_ query_label  reference_label  distance  rank
          0           16289      34.62371920804245    1
          0           45646      36.00687992842462    2
          0           32139      36.52008134363789    3
          0           25713      36.754850252057054    4
          0            331      36.87312281675268    5
```

[5 rows x 4 columns]

```
In [132_ cat_ds_model.query(cat_first_test_image,k=5)
```

Starting pairwise querying.

```
+-----+-----+-----+-----+
| Query points | # Pairs | % Complete. | Elapsed Time |
+-----+-----+-----+-----+
| 0            | 1        | 0.196464    | 62.866ms     |
| Done         |          | 100         | 539.471ms    |
+-----+-----+-----+-----+
```

```
Out[132_ query_label  reference_label  distance  rank
          0           16289      34.62371920804245    1
          0           45646      36.00687992842462    2
          0           32139      36.52008134363789    3
          0           25713      36.754850252057054    4
          0            331      36.87312281675268    5
```

[5 rows x 4 columns]

```
In [133_ ## cat_ds_model
for i in cat_ds_model.query(cat_first_test_image,k=5):
    print(i['distance'])
```

Starting pairwise querying.

```

+-----+-----+-----+-----+
| Query points | # Pairs | % Complete. | Elapsed Time |
+-----+-----+-----+-----+
| 0            | 1       | 0.196464    | 93.886ms      |
| Done         |         | 100         | 463.859ms     |
34.62371920804245
+-----+-----+-----+-----+
36.00687992842462
36.52008134363789
36.754850252057054

```

In [134_] *## As you can see above, the range is within 35(34.623 is rounded to 35) to 3*

For the first image in the test data, in what range is the mean distance between this image and its 5 nearest neighbors that were labeled 'dog' in the training data?

In [135_] `for i in dog_ds_model.query(dog_first_test_image,k=5):
 print(i['distance'])`

Starting pairwise querying.

```

+-----+-----+-----+-----+
| Query points | # Pairs | % Complete. | Elapsed Time |
+-----+-----+-----+-----+
| 0            | 1       | 0.196464    | 83.575ms      |
| Done         |         | 100         | 501.801ms     |
33.47735903726341
34.41522159902278
34.813863006141204
34.928931346762944
37.154640919350605
+-----+-----+-----+-----+

```

In [136_] *## if you ignore the last entry, the range comes to 33 to 35..Note that the q
#with this error point*

In [137_] *## Also, you can see that the range is tighter for the dog dataset. Thus, we*

In what range is the accuracy of the 1-nearest neighbor classifier at classifying 'dog' images from the test set?

In [138_] `image_test_cat = image_test_data[image_test_data['label'] == 'cat']
image_test_dog = image_test_data[image_test_data['label'] == 'dog']
image_test_bird = image_test_data[image_test_data['label'] == 'bird']
image_test_automobile = image_test_data[image_test_data['label'] == 'automobi`

In [139_] `dog_cat_neighbors = cat_ds_model.query(image_test_dog, k=1)`

Starting blockwise querying.

max rows per data block: 4348

number of reference data blocks: 4

number of query data blocks: 1

Query points	# Pairs	% Complete.	Elapsed Time
1000	127000	24.9509	2.26s
Done	509000	100	2.31s

```
In [140]: dog_automobile_neighbors = automobile_ds_model.query(image_test_dog, k=1)
```

Starting blockwise querying.

max rows per data block: 4348

number of reference data blocks: 4

number of query data blocks: 1

Query points	# Pairs	% Complete.	Elapsed Time
1000	127000	24.9509	2.21s
Done	509000	100	2.56s

```
In [141]: dog_bird_neighbors = bird_ds_model.query(image_test_dog, k=1)
```

Starting blockwise querying.

max rows per data block: 4348

number of reference data blocks: 4

number of query data blocks: 1

Query points	# Pairs	% Complete.	Elapsed Time
1000	119000	24.8954	1.70s
Done	478000	100	2.20s

```
In [142]: dog_dog_neighbors = dog_ds_model.query(image_test_dog, k=1)
```

Starting blockwise querying.

max rows per data block: 4348

number of reference data blocks: 4

number of query data blocks: 1

Query points	# Pairs	% Complete.	Elapsed Time
1000	128000	25.1473	2.74s
Done	509000	100	2.97s

```
In [149_ #news_frame = turicreate.SFrame({'foo': others_frame['foo'], 'bar': some_other
dog_distances = turicreate.SFrame()
dog_distances['dog_dog'] = dog_dog_neighbors['distance']
dog_distances['dog_cat'] = dog_cat_neighbors['distance']
dog_distances['dog_automobile'] = dog_automobile_neighbors['distance']
dog_distances['dog_bird'] = dog_bird_neighbors['distance']
```

```
In [150_ dog_distances
```

```
Out[150_
```

dog_dog	dog_cat	dog_automobile	dog_bird
33.47735903726335	36.419607706754384	41.95797614571203	41.75386473035126
32.84584956840554	38.83532688735542	46.00213318067788	41.3382958924861
35.03970731890584	36.97634108541546	42.946229069238804	38.615759085289056
33.90103276968193	34.575007291446106	41.68660600484793	37.08922699538214
37.484925090925636	34.77882479101661	39.22696649347584	38.27228869398105
34.94516534398124	35.11715782924591	40.58451176980721	39.146208923590486
39.095727834463545	40.60958309132649	45.10673529610854	40.523040105962316
37.76961310322034	39.90368673062214	41.32211409739762	38.19479183926956
35.10891446032838	38.067470016821176	41.82446549950164	40.156713166131446
43.242283258453455	42.72587329506032	45.497692940110376	45.55979626027668

[1000 rows x 4 columns]

Note: Only the head of the SFrame is printed.

You can use `print_rows(num_rows=m, num_columns=n)` to print more rows and columns.

find if the dog dog columns are correctly classified

```
In [152_ def is_dog_correct(row):
dog_dog_val = row['dog_dog']
dog_cat_val = row['dog_cat']
dog_automobile_val = row['dog_automobile']
dog_bird_val = row['dog_bird']

if (( dog_dog_val > dog_cat_val) & (dog_dog_val > dog_automobile_val) & (
    return 1
else:
    return 0
```

```
In [157_ dog_distances_correct_set = dog_distances.apply(lambda x :is_dog_correct(x))
```

```
In [158_ dog_distances_correct_set
```

```
Out[158_ dtype: int
Rows: 1000
[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ... ]
```

You can call the sum method on the result to get the total number of correctly classified dog images in the test set.

```
In [159_ dog_distances_correct_set.sum()
```

```
Out[159_ 11
```

```
In [ ]:
```