

```

MATCH      (b:Person)-[r:RATED]->(m:Movie), (b)-[s:SIMILARITY]-(a:Person {name:'Zoltan Varju'})
WHERE      NOT((a)-[:RATED]->(m))
WITH       m, s.similarity AS similarity, r.rating AS rating
ORDER BY  m.name, similarity DESC
WITH       m.name AS movie, COLLECT(rating)[0..3] AS ratings
WITH       movie, REDUCE(s = 0, i IN ratings | s + i)*1.0 / LENGTH(ratings) AS reco
ORDER BY  reco DESC
RETURN    movie AS Movie, reco AS Recommendation

```

```
neo4j$ LOAD CSV FROM " http://archive.ics.uci.edu/ml/machine-lear...
```

Table	Added 435 labels, created 435 nodes, set 870 properties, completed after 1830 ms.
Code	

```
MATCH (n:Person) WHERE "?" in n.features RETURN count(n)
```

```
neo4j$ MATCH (n:Person) WHERE "?" in n.features RETURN count...
```

Table	count(n)
Text	203
Code	

```
MATCH (p:Person) WHERE '?' in p.features WITH p,apoc.coll.occurrences(p.features,'?') as missing
RETURN missing,count(*) as times ORDER BY missing ASC
```

neo4j\$ MATCH (p:Person) WHERE '?' in p.features WITH p,apoc.count(p.features) as times

missing	times
1	124
2	43
3	16
4	6
5	5
6	4
7	1
9	1

```
MATCH (p:Person) WITH p,apoc.coll.occurrences(p.features, '?') as missing WHERE missing > 6
DELETE p
```

```
neo4j$ MATCH (p:Person) WHERE '?' in p.features WITH p,apoc.count(p.features) as times
```

missing	times
1	124
2	43
3	16
4	6
5	5
6	4
7	1
9	1

```
neo4j$ MATCH (p:Person) WITH p,apoc.coll.occurrences(p.features,'..
```



Deleted 5 nodes, completed after 71 ms.

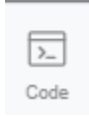


```
MATCH (p:Person) WITH p LIMIT 344 SET p:Training;
```

```
neo4j$ MATCH (p:Person) WITH p LIMIT 344 SET p:Training;
```



Added 344 labels, completed after 98 ms.

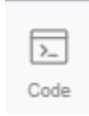


```
MATCH (p:Person) WITH p SKIP 344 SET p:Test;
```

```
neo4j$ MATCH (p:Person) WITH p SKIP 344 SET p:Test;
```



Added 86 labels, completed after 21 ms.



```
MATCH (n:Person) UNWIND n.features as feature WITH n,collect(CASE feature WHEN 'y' THEN 1  
WHEN 'n' THEN 0 ELSE 0.5 END) as feature_vector SET n.feature_vector = feature_vector
```

```
neo4j$ MATCH (n:Person) UNWIND n.features as feature WITH n,colle... 
```



Set 430 properties, completed after 159 ms.



```
MATCH (test:Test) WITH test, test.feature_vector as feature_vector CALL apoc.cypher.run('MATCH
(training:Training) WITH training, gds.alpha.similarity.euclideanDistance($feature_vector,
training.feature_vector) AS similarity ORDER BY similarity ASC LIMIT 3 RETURN
collect(training.class) as classes', {feature_vector: feature_vector}) YIELD value WITH test.class as
class, apoc.coll.sortMaps(apoc.coll.frequencies(value.classes), '^count')[- 1].item as
predicted_class WITH sum(CASE when class = predicted_class THEN 1 ELSE 0 END) as
correct_predictions, count(*) as total_predictions RETURN correct_predictions, total_predictions,
correct_predictions / toFloat(total_predictions) as ratio;
```

neo4j\$ MATCH (test:Test) WITH test, test.feature_vector as feature_vector CALL a... [↓](#)

	correct_predictions	total_predictions	ratio
Table			
A Text	77	86	0.8953488372093024
Code			

Started streaming 1 records after 1 ms and completed after 577 ms.