## CS 429 – Information Retrieval

# **Assignment 3 – Relevance Feedback**

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# **Part 1: Experimental Study**

# 1. Queries, Inputs & Results

## 1.1 Query 1

Query: PROPOSALS FOR A UNIFIED EUROPE INDEPENDENT OF THE U.S.

Query ID: 47

Results: Before Rochhio

```
Top 10 result(s) for the query ' PROPOSALS FOR A UNIFIED EUROPE I<u>NDEPENDENT OF THE U.S</u>
    using exact retrieval method are:
RANK
       DOC ID
                 DOC NAME
01
       378
                 TEXT 511.txt
                                 0.146932650380702
02
       023
                 TEXT 045.txt
                                 0.10953190541581197
03
       093
                 TEXT 131.txt
                                 0.10619595509998125
04
                                 0.10495040646540052
       031
                TEXT 054.txt
05
       423
                 TEXT 563.txt
                                 0.10063443201245467
06
       135
                                 0.09584803258461985
                 TEXT 183.txt
07
       254
                 TEXT 317.txt
                                 0.0934311463199799
08
       054
                 TEXT 086.txt
                                 0.09200151464841302
09
       115
                 TEXT 157.txt
                                 0.09079518711065887
10
       148
                TEXT 196.txt
                                 0.0836880585244233
```

Positive: 54 23

Negative: 378 093 423 135 254 115 148 031

**Results:** After 1<sup>st</sup> Iteration

```
New query terms with weights:
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0.7591051410176549}
```

```
RANK
       DOC_ID
                 DOC NAME
                                  SCORE
                 TEXT 086.txt
                                  0.3159243024081122
01
       054
02
       023
                 TEXT 045.txt
                                  0.21792998315239728
03
       157
                 TEXT 213.txt
                                  0.06296152343347944
04
                 TEXT 071.txt
                                  0.06157242660530443
       047
05
       001
                 TEXT 017.txt
                                  0.05466013190259715
                 TEXT 287.txt
TEXT 260.txt
06
       228
                                  0.04863722204717954
07
       202
                                  0.04693319578438545
08
                 TEXT 072.txt
       048
                                  0.046840409476857754
09
                 TEXT 308.txt
       247
                                  0.043624085322694975
                 TEXT 126.txt
10
       089
                                  0.040479986940129
Results found in 0.48357868194580078125 seconds
```

Positive: 54 23 47

Negative: 157 001 228 202 247 089

Results: After 2<sup>nd</sup> Iteration

```
New query terms with weights:
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03
       023
                TEXT 045.txt
                                 0.08527128621256497
04
       048
                TEXT 072.txt
                                 0.050691044586779324
05
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       001
                                 0.04908440788213785
                TEXT 163.txt
06
       121
                                 0.0470494117152185
                TEXT 213.txt
07
       157
                                 0.046250549282179206
08
       053
                TEXT 085.txt
                                 0.04534304082698555
09
       202
                TEXT 260.txt
                                 0.044550694275873846
10
       378
                TEXT 511.txt
                                 0.04278758368148206
Results found in 1.61428976058959960938 seconds
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Positive: 047 054 023 048 053 Negative: 001 121 157 202 378

Results: After 3rd Iteration

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02
       048
                 TEXT 072.txt
03
       054
                 TEXT 086.txt
                                 0.10899357049402013
04
       053
                 TEXT 085.txt
                                 0.10473756704009335
                 TEXT 045.txt
05
       023
                                 0.07518562769760351
06
       121
                                 0.04915204301335517
07
       001
                 TEXT 017.txt
                                 0.04653243632509639
08
       202
                 TEXT 260.txt
                                 0.04447390727293981
                 TEXT 213.txt
09
       157
                                 0.043758041716885014
       378
                 TEXT 511.txt
10
                                 0.043365266203828225
Results found in 2,00141286849975585938 seconds
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## 1.2 Query 2

**Query:** SUGGESTION MADE BY PRESIDENT KENNEDY FOR A NATO NUCLEAR MISSILE FLEET MANNED BY INTERNATIONAL CREWS.

Query ID: 55

**Results:** Before Rochhio

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RANK
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                 DOC NAME
                                  SCORE
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TEXT 317.txt
01
       089
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02
       254
                                  0.11694783914553127
03
       157
                 TEXT 213.txt
                                  0.1092162565359016
04
                                  0.10729596437122495
       247
                 TEXT 308.txt
05
       001
                 TEXT 017.txt
                                  0.10462708017902281
06
       135
                 TEXT 183.txt
                                  0.09857948496104574
07
       402
                 TEXT 540.txt
                                 0.0934341340973422
08
       364
                 TEXT 492.txt
                                | 0.07120979807143328
09
       295
                 TEXT 380.txt
                                 0.06907083347019824
10
       038
                TEXT 062.txt | 0.06568636138014994
Results found in 0.02923607826232910156 seconds
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#### Feedback:

Positive: 089 254 157 247 003 135

Negative: 402 364 295 038

Results: After 1st Iteration

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04	254	TEXT 317.txt	0.1383830457510683
05	135	TEXT 183.txt	0.13825386020166336
06	003	TEXT 019.txt	0.1382184485595235
07	001	TEXT 017.txt	0.061087028114243394
08	047	TEXT 071.txt	0.05897868643658619
09	228	TEXT 287.txt	0.05422109387595287
10 i	148	TEXT 196.txt	0.046506002524409486

Positive: 89 157 247 254 135 228 001 047

Negative: 003 148

Results: After 2<sup>nd</sup> Iteration

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04   157	TEXT 213.txt	0.0935022239776395
05   228	TEXT 287.txt	0.09162846658798783
06   247	TEXT 308.txt	0.08325359433286345
07   254	TEXT 317.txt	0.08225291657326061
08   135	TEXT 183.txt	0.08217613051785908
09   003	TEXT 019.txt	0.08055360399231798

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10 | 121 | TEXT 163.txt | 0.050686881832798805

Results found in 2.28747582435607910156 seconds
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#### Feedback:

Positive: 047 089 001 157 228 247 254 135

Negative: 003 121

**Results:** After 3<sup>rd</sup> Iteration

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RANK
       DOC ID
                                 SCORE
                                 0.2256689570898612
01
       047
                TEXT 071.txt
02
       089
                TEXT 126.txt
                                0.10836661548528391
03
       001
                TEXT 017.txt
                                0.10746694243309221
04
       157
                TEXT 213.txt
                                0.09745535381903588
                TEXT 287.txt
05
       228
                                0.09550237685644292
06
       247
                TEXT 308.txt
                                0.08677342791713687
                TEXT 317.txt
07
       254
                                0.0857304430449882
08
       135
                TEXT 183.txt
                                0.0856504105935749
09
       121
                                0.050063995251209095
10
       054
                TEXT 086.txt | 0.04485530966378938
Results found in 2.26391220092773437500 seconds
```

# 1.3 Query 3

**Query:** STRENGTHS IN POPULAR VOTES OF THE VARIOUS POLITICAL PARTIES IN THE RECENT ITALIAN ELECTIONS .

Query ID: 28

**Results:** Before Rochhio

```
DOC_ID
                DOC NAME
                                SCORE
01
       277
                TEXT 348.txt
                                0.09519406110075088
       390
02
                TEXT 526.txt
                                0.08910946420728515
                TEXT 116.txt
03
       081
                                0.07840708233208124
04
       360
                TEXT 485.txt | 0.07724910174550617
                TEXT 306.txt | 0.07204960510353643
05
       245
                TEXT 284.txt | 0.07183472155206362
06
       225
07
       391
                TEXT 527.txt
                                0.07165138446258602
08
       325
                TEXT 417.txt
                                0.07011332885320301
09
       118
                TEXT 160.txt
                                0.06597880815501249
       096
               TEXT 135.txt | 0.0654552123916335
Results found in 0.02610898017883300781 seconds
```

#### Feedback:

Positive: 277 360

Negative: 390 081 245 225 391 325 118 096

Results: After 1st Iteration

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New query terms with weights:
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03 j	022	TEXT 043.txt	0.06815072363690708	
04 j	189	TEXT 247.txt	0.06642679580938306	
05 j	219	TEXT 278.txt	0.06021485089508317	
06 j	173	TEXT 230.txt	0.05491962860442078	
07 j	394	TEXT 530.txt	0.05247910916181013	
08 j	265	TEXT 331.txt	0.051341482394787155	
09 j	073	TEXT 107.txt	0.045722939418457335	
10 j	121	TEXT 163.txt	0.036810432752678625	
Results found in 0.67884707450866699219 seconds				

## Feedback:

Positive: 360 277 189 265 219 Negative: 022 173 073 121 394

Results: After 2<sup>nd</sup> Iteration

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09
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Results found in 1.09019804000854492188 seconds
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### Feedback:

Positive: 360 277 189 219 265 Negative: 173 022 394 073 121

**Results:** After 3<sup>rd</sup> Iteration

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03
        189
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04
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Results found in 1.18505072593688964844 seconds
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# 2. Metrics & Analysis

### 2.1 Query 1

**Before Rocchio:** 

Precision: 0.2 Recall: 0.33 MAP: 0.375

**After Iteration 1:** 

Precision: 0.3 Recall: 0.5 MAP: 0.91

**After Iteration 2:** 

Precision: 0.5 Recall: 0.83 MAP: 0.93

**After Iteration 3:** 

Precision: 0.5 Recall: 0.83 MAP: 1

MAP Across 3 Iterations: 0.94

### 2.2 Query 2

**Before Rocchio:** 

Precision: 0.6 Recall: 0.5 MAP: 1

**After Iteration 1:** 

Precision: 0.8 Recall: 0.66 MAP: 0.84

After Iteration 2:

Precision: 0.8 Recall: 0.66 MAP: 1

After Iteration 3:

Precision: 0.9 Recall: 0.75 MAP: 0.98

MAP Across 3 Iterations: 0.94

# 2.3 Query 3

**Before Rocchio:** 

Precision: 0.2 Recall: 0.4 MAP: 0.75

After Iteration 1:

Precision: 0.5 Recall: 1 MAP: 0.83

**After Iteration 2:** 

Precision: 0.5 Recall: 1 MAP: 1

**After Iteration 3:** 

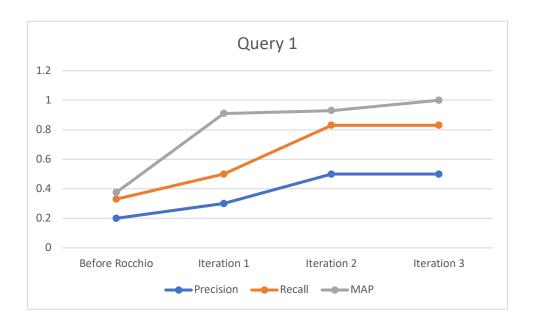
Precision: 0.5 Recall: 1 MAP: 1

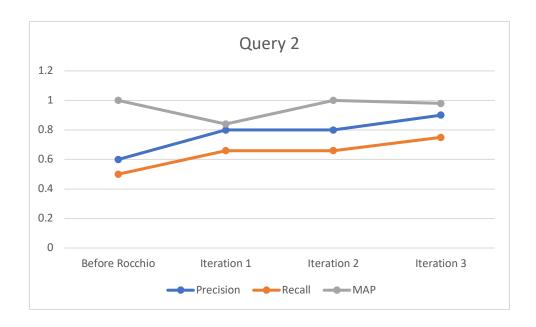
MAP Across 3 Iterations: 0.94

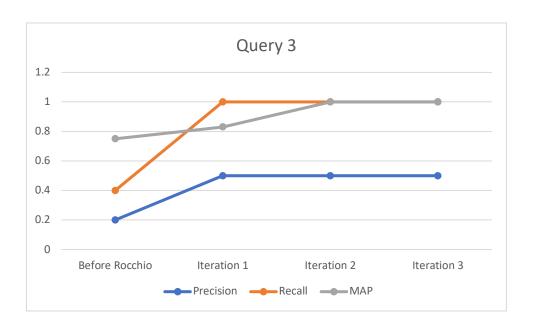
#### 2.4 MAP Across 3 Queries

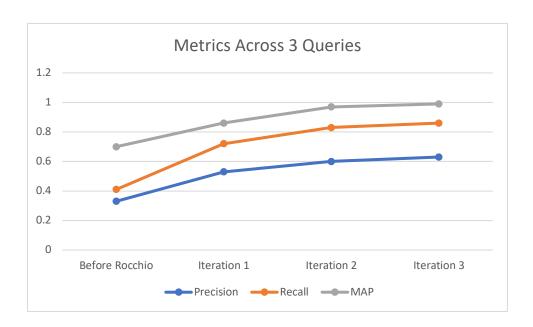
Before Rocchio: 0.70 After 1 Iteration(s): 0.86 After 2 Iterations(s): 0.97 After 3 Iterations(3): 0.99

# 2.5 Graph Plots









# Part 2: Pseudo Relevance

# 3. Metrics & Analysis

### 3.1 Query 1

**Before Rocchio:** 

Precision: 0.2 Recall: 0.33 MAP: 0.375

After Iteration 1:

Precision: 0.4 Recall: 0.66 MAP: 0.4

After Iteration 2:

Precision: 0.4 Recall: 0.66 MAP: 0.4

**After Iteration 3:** 

Precision: 0.4 Recall: 0.66 MAP: 0.4

MAP Across 3 Iterations: 0.4

### 3.2 Query 2

**Before Rocchio:** 

Precision: 0.6 Recall: 0.5 MAP: 1

**After Iteration 1:** 

Precision: 0.9 Recall: 0.75 MAP: 1

After Iteration 2:

Precision: 0.9 Recall: 0.75 MAP: 1

**After Iteration 3:** 

Precision: 0.9 Recall: 0.75 MAP: 1

MAP Across 3 Iterations: 1

## 3.3 Query 3

**Before Rocchio:** 

Precision: 0.2 Recall: 0.4 MAP: 0.75

### **After Iteration 1:**

Precision: 0.5 Recall: 1 MAP: 0.64

**After Iteration 2:** 

Precision: 0.5 Recall: 1 MAP: 0.64

**After Iteration 3:** 

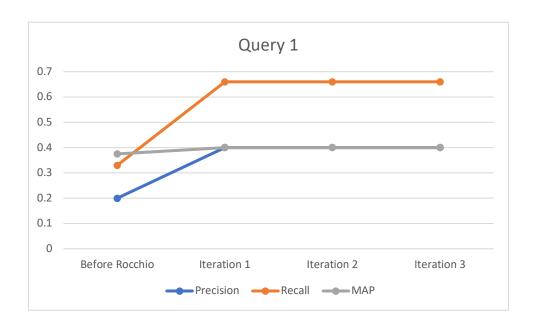
Precision: 0.5 Recall: 1 MAP: 0.64

MAP Across 3 Iterations: 0.94

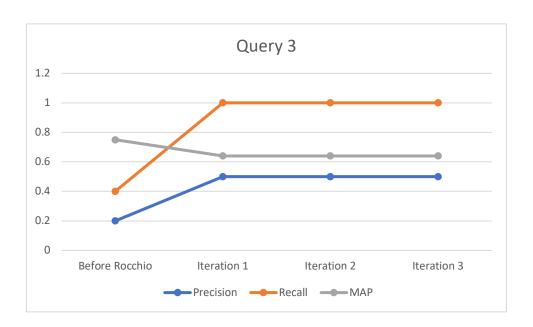
#### 3.4 MAP Across 3 Queries

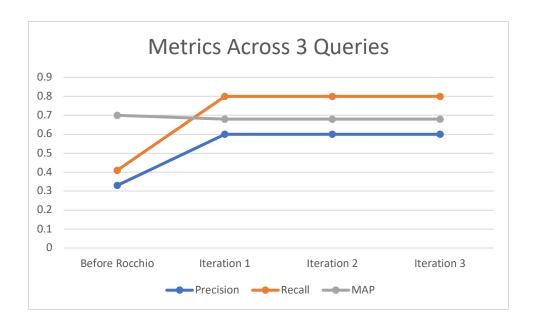
Before Rocchio: 0.70 After 1 Iteration(s): 0.70 After 2 Iterations(s): 0.70 After 3 Iterations(3): 0.70

### 3.5 Graph Plots

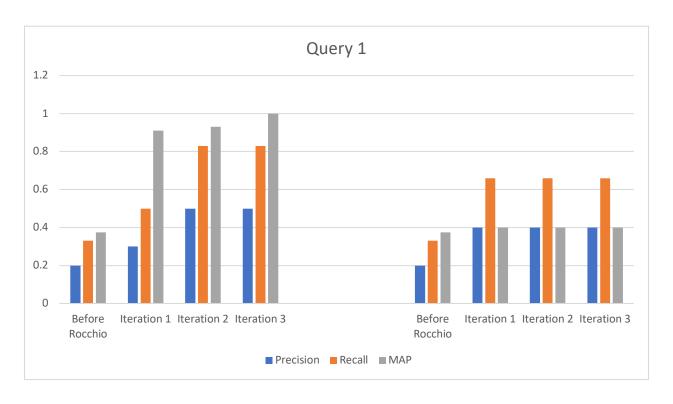


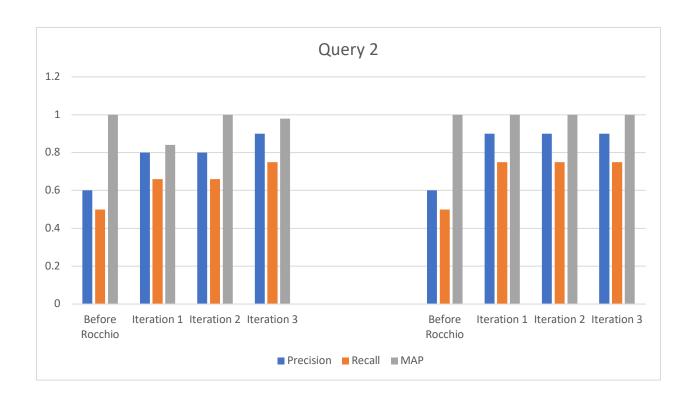


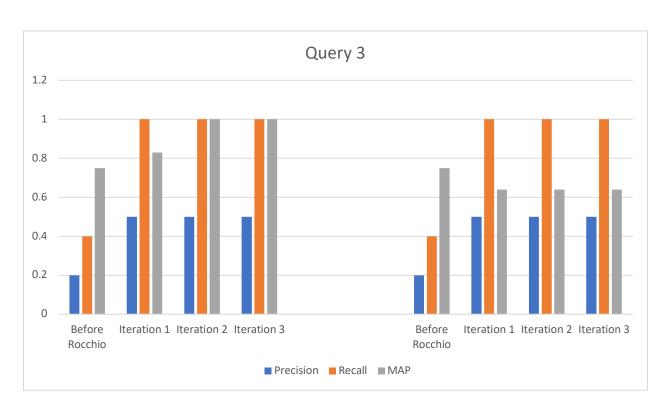


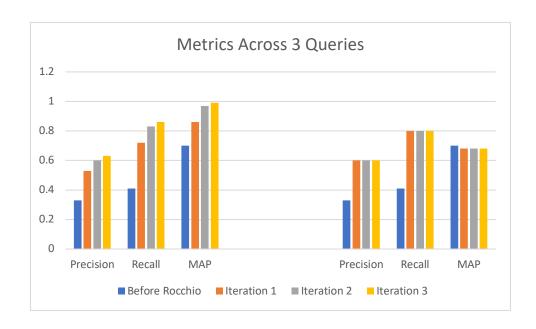


In the case of user feedback, the queries seemed to get better with every additional input, and precision, recall, and MAP were improved for every iteration. In the case of pseudo-relevance, the queries seemed to get better after the first iteration, but then peak for all the iterations after that. The issue here is, if the relevant docs weren't in the top 3, then the algorithm wouldn't pick it up. It would marginally improve the query. The MAP wouldn't progress to 1 in most cases for every additional query. The recall seemed to improve after the first iteration and was higher than user-feedback queries after the first iteration.









(Left side → User Feedback, Right side → Pseudo Relevance)