EVALUATION RESULTS
(Date: 16 October 2018)
Dataset 1,200 projects

TEN-FOLD CROSS VALIDATION

Round	Training Projects	Testing Projects
1	121 – 1200	001 – 120
2	1 – 120, 241 – 1200	121 – 240
3	1 – 240, 361 – 1200	241 – 360
4	1 – 360, 481 – 1200	361 – 480
5	1 – 480, 601 – 1200	481 – 600
6	1 – 600, 721 – 1200	601 – 720
7	1 – 720, 841 – 1200	721 – 840
8	1 – 840, 961 – 1200	841 – 960
9	1 – 960, 1081 – 1200	961 – 1080
10	1 – 1080	1081 – 1200

Results for LibAdvisor

Recall rate@N = 5

Fold	Number of neighbours (k)				
	5	**10**	**15**	**20**	**25**
1	0.93	0.95	0.95	0.94	0.95
2	0.94	0.98	0.97	0.96	0.97
3	0.92	0.93	0.93	0.92	0.93
4	0.88	0.94	0.95	0.93	0.93
5	0.90	0.95	0.97	0.96	0.96
6	0.88	0.90	0.90	0.91	0.92
7	0.92	0.92	0.92	0.93	0.91
8	0.86	0.88	0.87	0.88	0.88
9	0.90	0.93	0.93	0.93	0.94
10	0.90	0.90	0.90	0.90	0.90
Average	**0.90**	**0.93**	**0.93**	**0.93**	**0.93**

Recall rate@N = 10

Fold	Number of neighbours (k)				
	5	**10**	**15**	**20**	**25**
1	0.95	0.98	0.95	0.95	0.96
2	0.98	0.98	0.98	0.98	0.98
3	0.95	0.95	0.94	0.94	0.95
4	0.95	0.99	0.98	0.97	0.98
5	0.95	0.96	0.98	0.98	0.98
6	0.93	0.93	0.91	0.93	0.93
7	0.94	0.96	0.94	0.96	0.94
8	0.90	0.90	0.90	0.90	0.91
9	0.96	0.97	0.98	0.98	0.98
10	0.94	0.94	0.94	0.95	0.94
Average	**0.945**	**0.956**	**0.950**	**0.954**	**0.955**

k= 10:

Fold	Number of libraries (N)				
	1	**3**	**5**	**7**	**10**
1	0.775	0.933	0.950	0.958	0.975
2	0.775	0.933	0.975	0.975	0.983
3	0.825	0.891	0.925	0.942	0.942
4	0.658	0.883	0.942	0.967	0.991
5	0.775	0.916	0.950	0.958	0.958
6	0.667	0.808	0.891	0.908	0.925
7	0.641	0.875	0.916	0.925	0.958
8	0.633	0.825	0.883	0.883	0.908
9	0.675	0.858	0.925	0.958	0.967
10	0.675	0.875	0.900	0.925	0.942
Average	**0.697**	**0.879**	**0.919**	**0.939**	**0.956**

k= 10:

Fold	Number of libraries (N)				
	5	**10**	**15**	**20**	**25**
1	0.950	0.975	0.983	0.975	0.983
2	0.975	0.983	0.991	0.991	0.991
3	0.925	0.942	0.966	0.966	0.966
4	0.942	0.991	0.991	0.991	0.991
5	0.950	0.958	0.983	0.975	0.983
6	0.891	0.925	0.975	0.966	0.975
7	0.916	0.958	0.983	0.983	0.983
8	0.883	0.908	0.941	0.925	0.941
9	0.925	0.967	0.991	0.991	0.991
10	0.900	0.942	0.958	0.958	0.958
Average					

k= 20

Fold	Number of libraries (N)				
	1	**3**	**5**	**7**	**10**
1	0.816	0.908	0.941	0.950	0.950
2	0.808	0.925	0.958	0.983	0.983
3	0.825	0.900	0.925	0.925	0.941
4	0.666	0.900	0.933	0.950	0.966
5	0.775	0.925	0.958	0.966	0.975
6	0.691	0.825	0.908	0.916	0.925
7	0.666	0.858	0.925	0.925	0.958
8	0.700	0.833	0.875	0.883	0.908
9	0.716	0.891	0.933	0.958	0.983
10	0.700	0.850	0.891	0.916	0.950
Average	**0.736**	**0.881**	**0.924**	**0.937**	**0.953**

k= 20

Fold	Number of libraries (N)				
	5	**10**	**15**	**20**	**25**
1	0.941	0.950	0.966	0.966	0.966
2	0.958	0.983	0.983	0.983	0.983
3	0.925	0.941	0.950	0.975	0.975
4	0.933	0.966	0.991	0.991	0.991
5	0.958	0.975	0.975	0.975	0.975
6	0.908	0.925	0.950	0.950	0.958
7	0.925	0.958	0.975	0.975	0.975
8	0.875	0.908	0.925	0.933	0.933
9	0.933	0.983	0.991	0.991	1.000
10	0.891	0.950	0.966	0.983	0.983
Average					

Results for LibRec

Recall rate@N = 5

Fold	Number of neighbours (k)				
	5	**10**	**15**	**20**	**25**
1	0.892	0.925	0.933	0.93	0.93
2	0.958	0.958	0.95	0.94	0.94
3	0.9	0.875	0.875	0.86	0.88
4	0.9	0.842	0.841	0.84	0.84
5	0.875	0.891	0.90	0.88	0.90
6	0.875	0.783	0.81	0.79	0.81
7	0.825	0.85	0.85	0.86	0.85
8	0.85	0.858	0.86	0.86	0.85
9	0.9	0.908	0.89	0.9	0.90
10	0.792	0.8	0.78	0.775	0.78
Average					

Recall rate@N = 10

Fold	Number of neighbours (k)				
	5	**10**	**15**	**20**	**25**
1	0.90	0.925	0.93	0.93	0.93
2	0.96	0.94	0.94	0.94	0.95
3	0.90	0.88	0.88	0.86	0.87
4	0.86	0.85	0.83	0.85	0.84
5	0.86	0.87	0.90	0.90	0.89
6	0.775	0.81	0.80	0.80	0.80
7	0.833	0.85	0.85	0.85	0.84
8	0.875	0.85	0.86	0.85	0.84
9	0.9	0.89	0.89	0.90	0.90
10	0.783	0.78	0.79	0.77	0.77
Average	**0.864**	**0.864**	**0.867**	**0.865**	**0.863**

k= 10:

Fold	Number of libraries (N)				
	1	**3**	**5**	**7**	**10**
1	0.608	0.858	0.925	0.925	0.94
2	0.725	0.91	0.94	0.96	0.99
3	0.716	0.858	0.883	0.90	0.925
4	0.64	0.808	0.85	0.89	0.9
5	0.675	0.825	0.866	0.925	0.94
6	0.57	0.74	0.81	0.84	0.86
7	0.616	0.783	0.85	0.88	0.91
8	0.658	0.8	0.858	0.883	0.908
9	0.68	0.816	0.891	0.958	0.975
10	0.591	0.74	0.78	0.85	0.9083
Average					

k= 10:

Fold	Number of libraries (N)				
	5	**10**	**15**	**20**	**25**
1	0.925	0.95	0.958	0.958	0.991
2	0.941	0.983	0.991	0.991	0.991
3	0.883	0.916	0.941	0.958	0.966
4	0.85	0.9	0.958	0.975	0.983
5	0.866	0.941	0.95	0.958	0.958
6	0.816	0.866	0.916	0.925	0.933
7	0.858	0.916	0.941	0.958	0.958
8	0.858	0.916	0.941	0.941	0.95
9	0.891	0.95	0.983	0.983	0.983
10	0.791	0.908	0.958	0.966	0.966
Average					

k= 20

Fold	Number of libraries (N)				
	1	**3**	**5**	**7**	**10**
1	0.68	0.84	0.93	0.941	0.95
2	0.775	0.933	0.941	0.96	0.98
3	0.75	0.85	0.86	0.89	0.925
4	0.65	0.808	0.858	0.88	0.90
5	0.675	0.875	0.908	0.925	0.933
6	0.591	0.758	0.80	0.833	0.875
7	0.616	0.766	0.858	0.875	0.925
8	0.658	0.791	0.85	0.883	0.89
9	0.716	0.85	0.9083	0.93	0.958
10	0.625	0.725	0.775	0.85	0.916
Average					

k= 20:

Fold	Number of libraries (N)				
	5	**10**	**15**	**20**	**25**
1	0.93	0.95	0.95	0.966	0.966
2	0.941	0.983	0.991	0.991	0.991

3	0.86	0.933	0.941	0.958	0.958
4	0.858	0.908	0.958	0.966	0.975
5	0.908	0.925	0.95	0.958	0.966
6	0.80	0.858	0.933	0.966	0.966
7	0.858	0.925	0.958	0.966	0.975
8	0.85	0.883	0.916	0.933	0.941
9	0.9083	0.950	0.983	0.991	0.991
10	0.775	0.908	0.933	0.983	0.983
Average					