Outcomes of the experiments with the models: precision (P), recall (R), F 1-measure (F 1) and Geometric mean score (G m) ± standard deviation averaged over the 10 classification problems per KG

		1	ARGET CLA	SS #1		
	lubm-t.nt.Clas	s_17_24 <i>=</i> [lubm.Gradu	ateStudent	l lubm.PostD	oc]
			# Individua	ls		
		Positive	Negative	Unlabeled		
		119	719	318		
			Models	5		
Measures	MBNB	MBN	B-EM	H	ВМ	LogReg
Precision	1.000 ± 0.000	1.000	± 0.000	0.963	± 0.056	1.000 ± 0.000
Recall	1.000 ± 0.000	1.000	± 0.000	0.957	± 0.065	0.857 ± 0.000
F 1	1.000 ± 0.000	1.000	± 0.000	0.937	± 0.096	0.857 ± 0.000
G m	1.000 ± 0.000	1.000	± 0.000	0.805	± 0.298	0.926 ± 0.000

		1	ARGET CLA	SS #2		
luk	om-t.nt.Class_17_58= [[lubm.Grad	uateStuden	t lubm.Son	ne_researchP	roject_range]
			# Individua	ls		
		Positive	Negative	Unlabeled		
		119	705	332		
			Models	S		
Measures	MBNB	MBN	B-EM	Н	вм	LogReg
Precision	1.000 ± 0.000	1.000	± 0.000	0.975	± 0.050	1.000 ± 0.000
Recall	1.000 ± 0.000	1.000	± 0.000	0.971	± 0.058	0.854 ± 0.000
F 1	1.000 ± 0.000	1.000	± 0.000	0.957	± 0.085	0.854 ± 0.000
G m	1.000 ± 0.000	1.000	± 0.000	0.871	± 0.259	0.924 ± 0.000

| lubm-t.nt.Class_1_47≡ [lubm.Article | lubm.Some_doctoralDegreeFrom_range]

# Individuals					
Positive Negative Unlabeled					
35	322 799				

	Models					
Measures	MBNB	MBNB-EM	НВМ	LogReg		
Precision	1.000 ± 0.000	1.000 ± 0.000	0.992 ± 0.025	1.000 ± 0.000		
Recall	1.000 ± 0.000	1.000 ± 0.000	0.991 ± 0.028	0.000 ± 0.000		
F 1	1.000 ± 0.000	1.000 ± 0.000	0.986 ± 0.041	0.000 ± 0.000		
G m	1.000 ± 0.000	1.000 ± 0.000	0.929 ± 0.213	0.000 ± 0.000		

TARGET CLASS #4

 $lubm-t.nt.Class_36_45 \equiv [lubm.TeachingAssistant \mid lubm.Some_affiliatedOrganizationOf_range]$

# Individuals					
Positive Negative Unlabeled					
24	501 631				

Models					
Measures	MBNB	MBNB-EM	НВМ	LogReg	
Precision	1.000 ± 0.000	1.000 ± 0.000	0.996 ± 0.013	1.000 ± 0.000	
Recall	1.000 ± 0.000	1.000 ± 0.000	0.996 ± 0.013	0.746 ± 0.019	
F 1	1.000 ± 0.000	1.000 ± 0.000	0.993 ± 0.020	0.838 ± 0.012	
G m	1.000 ± 0.000	1.000 ± 0.000	0.921 ± 0.238	0.864 ± 0.011	

lubm-t.nt.Class_3_15≡ [lubm.AssociateProfessor | lubm.FullProfessor]

# Individuals					
Positive Negative Unlabeled					
19	719	418			

Models					
Measures	MBNB	MBNB-EM	НВМ	LogReg	
Precision	1.000 ± 0.000	1.000 ± 0.000	0.995 ± 0.011	1.000 ± 0.000	
Recall	1.000 ± 0.000	1.000 ± 0.000	0.995 ± 0.011	0.973 ± 0.000	
F 1	1.000 ± 0.000	1.000 ± 0.000	0.992 ± 0.016	0.973 ± 0.000	
G m	1.000 ± 0.000	1.000 ± 0.000	0.832 ± 0.335	0.986 ± 0.000	

TARGET CLASS #6

lubm-t.nt.Class_3_43≡ [lubm.AssociateProfessor | lubm.Some_advisor_range]

# Individuals					
Positive Negative Unlabeled					
180	0 719 257				

Models					
Measures	MBNB	MBNB-EM	НВМ	LogReg	
Precision	1.000 ± 0.000	1.000 ± 0.000	0.984 ± 0.048	1.000 ± 0.000	
Recall	1.000 ± 0.000	1.000 ± 0.000	0.980 ± 0.060	0.800 ± 0.000	
F 1	1.000 ± 0.000	1.000 ± 0.000	0.971 ± 0.087	0.800 ± 0.000	
G m	1.000 ± 0.000	1.000 ± 0.000	0.940 ± 0.180	0.894 ± 0.000	

 $lubm-t.nt.Class_43_45 \equiv [lubm.Some_advisor_range \mid lubm.Some_affiliatedOrganizationOf_range]$

# Individuals					
Positive Negative Unlabeled					
168 501 487					

	Models					
Measures	MBNB	MBNB-EM	НВМ	LogReg		
Precision	1.000 ± 0.000	1.000 ± 0.000	0.986 ± 0.043	1.000 ± 0.000		
Recall	1.000 ± 0.000	1.000 ± 0.000	0.982 ± 0.054	0.591 ± 0.020		
F 1	1.000 ± 0.000	1.000 ± 0.000	0.978 ± 0.066	0.659 ± 0.012		
G m	1.000 ± 0.000	1.000 ± 0.000	0.962 ± 0.113	0.768 ± 0.013		

TARGET CLASS #8

lubm-t.nt.Class_43_67= [lubm.Some_advisor_range | lubm.Some_worksFor_range]

# Individuals				
Positive Negative Unlabeled				
203	719	234		

Models				
Measures	MBNB	MBNB-EM	НВМ	LogReg
Precision	1.000 ± 0.000	1.000 ± 0.000	0.944 ± 0.077	1.000 ± 0.000
Recall	1.000 ± 0.000	1.000 ± 0.000	0.930 ± 0.099	0.780 ± 0.000
F 1	1.000 ± 0.000	1.000 ± 0.000	0.900 ± 0.143	0.780 ± 0.000
G m	1.000 ± 0.000	1.000 ± 0.000	0.814 ± 0.263	0.883 ± 0.000

lubm-t.nt.Class_46_21≡ [lubm.Some_degreeFrom_range | lubm.Manual]

# Individuals				
Positive Negative Unlabeled				
154	501	501		

Models					
Measures	MBNB	MBNB-EM	НВМ	LogReg	
Precision	1.000 ± 0.000	1.000 ± 0.000	0.960 ± 0.071	1.000 ± 0.000	
Recall	1.000 ± 0.000	1.000 ± 0.000	0.949 ± 0.092	0.606 ± 0.025	
F 1	1.000 ± 0.000	1.000 ± 0.000	0.929 ± 0.132	0.676 ± 0.016	
G m	1.000 ± 0.000	1.000 ± 0.000	0.876 ± 0.228	0.778 ± 0.016	

TARGET CLASS #10

lubm-t.nt.Class_50_47≡ [lubm.Some_listedCourse_range | lubm.Some_doctoralDegreeFrom_range]

# Individuals				
Positive Negative Unlabeled				
35	322	799		

Models				
Measures	MBNB	MBNB-EM	НВМ	LogReg
Precision	1.000 ± 0.000	1.000 ± 0.000	0.975 ± 0.039	1.000 ± 0.000
Recall	1.000 ± 0.000	1.000 ± 0.000	0.972 ± 0.043	0.000 ± 0.000
F 1	1.000 ± 0.000	1.000 ± 0.000	0.959 ± 0.063	0.000 ± 0.000
G m	1.000 ± 0.000	1.000 ± 0.000	0.787 ± 0.325	0.000 ± 0.000

		MEANS			
	Models				
Measures	MBNB	MBNB-EM	НВМ	LogReg	
Precision	1.000 ± 0.000	1.000 ± 0.000	0.977 ± 0.016	1.000 ± 0.000	
Recall	1.000 ± 0.000	1.000 ± 0.000	0.972 ± 0.020	0.621 ± 0.329	
F 1	1.000 ± 0.000	1.000 ± 0.000	0.960 ± 0.029	0.644 ± 0.333	
G m	1.000 ± 0.000	1.000 ± 0.000	0.874 ± 0.059	0.702 ± 0.357	

Nemenyi-Friedman results calculated over the means							
Models	Models MBNB MBNB-EM HBM LogReg						
MBNB	1.000000	0.900000	0.283091	0.168634			
MBNB_EM	0.900000	1.000000	0.283091	0.168634			
HBM	0.283091	0.283091	1.000000	0.900000			
LogReg	0.168634	0.168634	0.900000	1.000000			