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

TARGET CLASS #1				
NTNames-t.nt.Class_0_59≡ [NTNames.Human | NTNames.Some_longitude_range]				

	# Individuals			
	Positive	Negative	Unlabeled	
	419	44	213	

Models				
Measures	MBNB	MBNB-EM	HBM	LogReg
Precision	1.000 ± 0.000	1.000 ± 0.000	1.000 ± 0.000	0.915 ± 0.000
Recall	1.000 ± 0.000	1.000 ± 0.000	1.000 ± 0.000	0.906 ± 0.000
F 1	1.000 ± 0.000	1.000 ± 0.000	1.000 ± 0.000	0.862 ± 0.000
G m	1.000 ± 0.000	1.000 ± 0.000	1.000 ± 0.000	0.291 ± 0.000

TARGET CLASS #2				
NTNames-t.nt.Class_14_19≡ [NTNames.Angel | NTNames.ContentBearingObject]				

	# Individuals			
	Positive	Negative	Unlabeled	
	10	199	467	

Models				
Measures	MBNB	MBNB-EM	HBM	LogReg
Precision	0.953 ± 0.010	0.955 ± 0.000	0.955 ± 0.000	1.000 ± 0.000
Recall	0.794 ± 0.027	0.952 ± 0.000	0.952 ± 0.000	0.000 ± 0.000
F 1	0.851 ± 0.018	0.929 ± 0.000	0.929 ± 0.000	0.000 ± 0.000
G m	0.824 ± 0.072	0.213 ± 0.000	0.213 ± 0.000	0.000 ± 0.000

TARGET CLASS #3				
NTNames-t.nt.Class_17_24≡ [NTNames.BeliefGroup | NTNames.CognitiveAgent]				

	# Individuals			
	Positive	**Negative**	**Unlabeled**	
	441	200	35	

Models				
Measures	**MBNB**	**MBNB-EM**	**HBM**	**LogReg**
Precision	1.000 ± 0.000	1.000 ± 0.000	0.969 ± 0.010	0.785 ± 0.000
Recall	1.000 ± 0.000	1.000 ± 0.000	0.966 ± 0.012	0.688 ± 0.000
F_1	1.000 ± 0.000	1.000 ± 0.000	0.966 ± 0.011	0.560 ± 0.000
G_m	1.000 ± 0.000	1.000 ± 0.000	0.975 ± 0.009	0.464 ± 0.000

TARGET CLASS #4				
NTNames-t.nt.Class_19_47≡ [NTNames.ContentBearingObject | NTNames.Some_antagonistOf_range]				

	# Individuals			
	Positive	**Negative**	**Unlabeled**	
	16	191	469	

Models				
Measures	**MBNB**	**MBNB-EM**	**HBM**	**LogReg**
Precision	0.950 ± 0.011	0.954 ± 0.015	0.954 ± 0.015	1.000 ± 0.000
Recall	0.934 ± 0.044	0.952 ± 0.016	0.952 ± 0.016	0.000 ± 0.000
F_1	0.926 ± 0.032	0.940 ± 0.023	0.940 ± 0.023	0.000 ± 0.000
G_m	0.640 ± 0.136	0.641 ± 0.137	0.641 ± 0.137	0.000 ± 0.000

TARGET CLASS #5				
NTNames-t.nt.Class_23_39≡ [NTNames.LandArea | NTNames.ReligiousBelief]				

	# Individuals			
	Positive	**Negative**	**Unlabeled**	
	139	496	41	

Models				
Measures	**MBNB**	**MBNB-EM**	**HBM**	**LogReg**
Precision	0.972 ± 0.006	0.977 ± 0.005	0.923 ± 0.010	0.828 ± 0.000
Recall	0.967 ± 0.008	0.976 ± 0.006	0.879 ± 0.023	0.780 ± 0.000
F_1	0.968 ± 0.008	0.976 ± 0.006	0.887 ± 0.021	0.684 ± 0.000
G_m	0.979 ± 0.005	0.973 ± 0.008	0.921 ± 0.015	0.414 ± 0.000

TARGET CLASS #6				
NTNames-t.nt.Class_27_14≡ [NTNames.FreshWaterArea | NTNames.Angel]				

	# Individuals			
	Positive	**Negative**	**Unlabeled**	
	9	191	476	

Models				
Measures	**MBNB**	**MBNB-EM**	**HBM**	**LogReg**
Precision	0.930 ± 0.038	0.953 ± 0.000	0.953 ± 0.000	1.000 ± 0.000
Recall	0.932 ± 0.040	0.950 ± 0.000	0.682 ± 0.410	0.000 ± 0.000
F_1	0.928 ± 0.037	0.926 ± 0.000	0.653 ± 0.417	0.000 ± 0.000
G_m	0.392 ± 0.280	0.218 ± 0.000	0.221 ± 0.010	0.000 ± 0.000

TARGET CLASS #7

NTNames-t.nt.Class_27_73≡ [NTNames.FreshWaterArea | NTNames.Some_subregionOf_range]

	# Individuals			
	Positive	Negative	Unlabeled	
	45	520	111	

	Models			
Measures	MBNB	MBNB-EM	HBM	LogReg
Precision	1.000 ± 0.000	1.000 ± 0.000	0.924 ± 0.000	0.924 ± 0.000
Recall	1.000 ± 0.000	1.000 ± 0.000	0.918 ± 0.000	0.918 ± 0.000
F_1	1.000 ± 0.000	1.000 ± 0.000	0.878 ± 0.000	0.878 ± 0.000
G_m	1.000 ± 0.000	1.000 ± 0.000	0.275 ± 0.000	0.275 ± 0.000

TARGET CLASS #8

NTNames-t.nt.Class_42_34≡ [NTNames.ResidencyAttribute | NTNames.Nation]

	# Individuals			
	Positive	Negative	Unlabeled	
	4	496	176	

	Models			
Measures	MBNB	MBNB-EM	HBM	LogReg
Precision	0.994 ± 0.000	0.993 ± 0.003	0.993 ± 0.000	0.993 ± 0.000
Recall	0.960 ± 0.012	0.969 ± 0.018	0.993 ± 0.000	0.993 ± 0.000
F_1	0.975 ± 0.007	0.980 ± 0.010	0.990 ± 0.000	0.990 ± 0.000
G_m	0.980 ± 0.006	0.803 ± 0.361	0.081 ± 0.000	0.081 ± 0.000

TARGET CLASS #9				
NTNames-t.nt.Class_43_45≡ [NTNames.Series	NTNames.StateOrProvince]				
	# Individuals			
	Positive	Negative	Unlabeled	
	24	522	130	
	Models			
Measures	MBNB	MBNB-EM	HBM	LogReg
Precision	0.972 ± 0.002	0.983 ± 0.006	0.959 ± 0.000	0.959 ± 0.000
Recall	0.920 ± 0.013	0.979 ± 0.009	0.957 ± 0.000	0.957 ± 0.000
F_1	0.937 ± 0.009	0.981 ± 0.008	0.936 ± 0.000	0.936 ± 0.000
G_m	0.957 ± 0.007	0.933 ± 0.030	0.202 ± 0.000	0.202 ± 0.000

TARGET CLASS #10				
NTNames-t.nt.Class_43_67≡ [NTNames.Series	NTNames.Some_religiousBelief_range]				
	# Individuals			
	Positive	Negative	Unlabeled	
	199	191	286	
	Models			
Measures	MBNB	MBNB-EM	HBM	LogReg
Precision	0.992 ± 0.009	0.993 ± 0.006	0.990 ± 0.009	1.000 ± 0.000
Recall	0.991 ± 0.010	0.993 ± 0.006	0.990 ± 0.010	0.000 ± 0.000
F_1	0.991 ± 0.010	0.993 ± 0.006	0.990 ± 0.010	0.000 ± 0.000
G_m	0.992 ± 0.010	0.993 ± 0.006	0.990 ± 0.010	0.000 ± 0.000

MEANS				
Models				
Measures	**MBNB**	**MBNB-EM**	**HBM**	**LogReg**
Precision	0.976 ± 0.024	0.981 ± 0.019	0.962 ± 0.025	0.941 ± 0.074
Recall	0.950 ± 0.060	0.977 ± 0.020	0.929 ± 0.089	0.524 ± 0.436
F₁	0.958 ± 0.045	0.972 ± 0.028	0.917 ± 0.097	0.491 ± 0.417
G m	0.876 ± 0.195	0.777 ± 0.301	0.552 ± 0.369	0.173 ± 0.172

Nemenyi-Friedman results calculated over the means				
Models	**MBNB**	**MBNB-EM**	**HBM**	**LogReg**
MBNB	1.000000	0.900000	0.516551	0.065622
MBNB_EM	0.900000	1.000000	0.220908	0.013809
HBM	0.516551	0.220908	1.000000	0.670273
LogReg	0.065622	0.013809	0.670273	1.000000