

7

Model 2: Logistic Regression & GloVe

	precision	recall	f1-score	support
Children & Family	0.49	0.43	0.45	181
Comedies	0.45	0.28	0.35	383
Documentaries	0.63	0.51	0.56	228
Drama	0.38	0.14	0.21	381
International	0.43	0.72	0.54	628
accuracy			0.46	1785
macro avg	0.47	0.42	0.42	1785
weighted avg	0.45	0.46	0.42	1785

7

Model 3: Random Forest & GloVe

	precision	recall	f1-score	support
Children & Family	0.37	0.27	0.31	181
Comedies	0.09	0.07	0.08	383
Documentaries	0.58	0.36	0.42	228
Drama	0.04	0.03	0.04	381
International	0.26	0.38	0.31	628
accuracy			0.23	1785
macro avg	0.25	0.22	0.23	1785
weighted avg	0.22	0.23	0.22	1785

8

Models with Further Pre-processed Data

- Removing stop words
- Lemmatization
- Nouns only

	precision	recall	f1-score	support
Children & Family	0.43	0.23	0.30	181
Comedies	0.48	0.15	0.22	383
Documentaries	0.51	0.38	0.43	228
Drama	0.35	0.07	0.12	381
International	0.39	0.79	0.52	628
accuracy			0.48	1785
macro avg	0.42	0.33	0.32	1785
weighted avg	0.41	0.48	0.34	1785

Logistic Regression & GloVe & Nouns Only Model

9

Iteration 1

	precision	recall	f1-score	support
Action & Adventure	0.47	0.21	0.29	180
Children & Family	0.47	0.42	0.45	181
Comedies	0.10	0.11	0.11	383
Documentaries	0.50	0.31	0.38	228
Drama	0.10	0.11	0.11	381
International	0.40	0.10	0.14	628
Stand-Up Comedy	0.10	0.10	0.10	64
accuracy			0.30	1785
macro avg	0.40	0.24	0.28	1785
weighted avg	0.40	0.24	0.28	1785

Iteration 2

	precision	recall	f1-score	support
Children & Family	0.51	0.48	0.49	177
Comedies	0.10	0.10	0.10	382
Documentaries	0.50	0.42	0.46	219
Drama	0.10	0.10	0.10	42
International	0.40	0.10	0.14	611
Stand-Up Comedy	0.10	0.10	0.10	21
accuracy			0.34	1478
macro avg	0.40	0.28	0.30	1478
weighted avg	0.40	0.28	0.30	1478

Iteration 3

	precision	recall	f1-score	support
Children & Family	0.57	0.49	0.53	168
Comedies	0.11	0.10	0.11	369
Documentaries	0.58	0.44	0.50	217
International	0.41	0.10	0.19	602
Stand-Up Comedy	0.10	0.10	0.10	55
accuracy			0.36	1385
macro avg	0.37	0.29	0.32	1385
weighted avg	0.37	0.29	0.32	1385

10

Drama Genre

index

description

1

5

9

12

15

17

21

33

35

36

38

42

48

49

50

69

73

78

79

82

84

92

93

99

11

Final Model: Logistic Regression & GloVe

	precision	recall	f1-score	support
Children & Family	0.76	0.54	0.63	173
Documentaries	0.64	0.51	0.57	282
International	0.77	0.67	0.72	646
Stand-Up Comedy	0.69	0.70	0.70	64
accuracy			0.74	1885
macro avg	0.72	0.66	0.68	1885
weighted avg	0.74	0.74	0.73	1885

index	listed_in	description
1	Drama	After crossing paths at a party, a Cape Town teen sets out to prove whether a private-school swimming star is her sister who was abducted at birth.
5	Drama	The arrival of a charismatic young priest brings glorious miracles, ominous mysteries and renewed religious fervor to a dying town desperate to believe.
9	Drama	A woman adjusting to life after a loss contends with a feisty bird that's taken over her garden — and a husband who's struggling to find a way forward.
12	Drama	After most of her family is murdered in a terrorist bombing, a young woman is unknowingly lured into joining the very group that killed them.
15	Drama	Students of color navigate the daily slights and slippery politics of life at an Ivy League college that's not nearly as "post-racial" as it thinks.
17	Drama	Strangers Diego and Isabel flee their home in Mexico and pretend to be a married couple to escape his drug-dealing enemies and her abusive husband.
21	Drama	When a good deed unwittingly endangers his clan, a 13th-century Turkish warrior agrees to fight a sultan's enemies in exchange for new tribal land.
33	Drama	Hundreds of cash-strapped players accept a strange invitation to compete in children's games. Inside, a tempting prize awaits — with deadly high stakes.
35	Drama	When his son goes missing during a snowy hike in the mountains, a retired intelligence officer will stop at nothing — and risk everything — to find him.
36	Drama	Tired of the small-time grind, three Marseille cops get a chance to bust a major drug network. But lines blur when a key informant makes a big ask.
38	Drama	A young Bruce Lee angers kung fu traditionalists by teaching outsiders, leading to a showdown with a Shaolin master in this film based on real events.
42	Drama	Four years after the last deadly shark attacks, police chief Martin Brody fights to protect Amity Island from another killer great white.
48	Drama	A rookie cop with one day to prove himself to a veteran LAPD narcotics officer receives a crash course in his mentor's questionable brand of justice.
49	Drama	A pair of high-powered, successful lawyers find themselves defending opposite interests of the justice system, causing a strain on their happy marriage.
50	Drama	After the ancient Great War, the god Chitragupta oversees a trial to determine who were the battle's true heroes and villains.
69	Drama	The writings of Nobel Prize winner Rabindranath Tagore come to life in this collection of tales set in early-20th-century Bengal.
73	Drama	When a powerful businesswoman's political ambitions are threatened by her underworld connections, the ensuing power struggle could cost her everything.
78	Drama	A budding politician has devious plans to rise in the ranks — until an unexpected new presence begins to interfere with his every crooked move.
79	Drama	A budding politician has devious plans to rise in the ranks — until an unexpected new presence begins to interfere with his every crooked move.
82	Drama	Bored with being the Lord of Hell, the devil relocates to Los Angeles, where he opens a nightclub and forms a connection with a homicide detective.
84	Drama	Twins are reunited as a good-hearted female gangster and her uptight rich sister take on family, crime, cops and all of the trouble that follows them.
92	Drama	Passengers and crew aboard a hijacked overnight flight scramble to outrace the sun as a mysterious cosmic event wreaks havoc on the world below.
93	Drama	Elisabeth and John-John live in the same city, but they inhabit different worlds. Can a passionate first love break through class and cultural barriers?
99	Drama	Four women — a chef, a single mom, an heiress and a job seeker — dig into love and work, with a generous side of midlife crises, in pre-pandemic LA.