

Reference	Publication Year	Title	First Author	Dataset	Language	Media's Country	Method	Model	Accuracy	F1	notes	Date of data extraction	Confirmation that the study was eligible to be included
1 yu2024computational	2024	Computational assessment of hyperpartisanship in news titles	Lyu, H.	Own	English	U.S	DL	BERT	0.84	0.78	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	12/11/2023	Yes
2 omidi-shayegan-et-al-2024-evaluation	2024	An evaluation of language models for hyperpartisan ideology detection in Persian Twitter	Omidi-Shayegan, S.	Own	Persian	Iran	Other	ChatGPT	0.85	0.85	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	04/04/2024	Yes
3 Mets_PLOS	2024	Automated stance detection in complex topics and small languages: The challenging case of immigration in polarizing news media	Mets, Mark	Own	Estonian	Estonia	Other		U/A	U/A	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	29/10/2024	Yes
4 ko_khan_2023	2023	KHAN: Knowledge-aware hierarchical attention networks for accurate political stance prediction	Ko	Semeval-2019	English	U.S	DL	HAN	0.95	U/A	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	12/11/2023	Yes
5 kim_multi-stage_2023	2023	Multi-stage prompt tuning for political perspective detection in low-resource settings	Kim, K.M.	Semeval-2019	English	U.S	DL	MP-tuning	0.91	U/A	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	12/11/2023	Yes
6 smadu_fake_2023	2023	From Fake to Hyperpartisan News Detection Using Domain Adaptation	Smādu, R.A.	Semeval-2019	English	U.S	DL	RoBERTa	0.84	0.83	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	30/11/2023	Yes
7 ahmed_temporal_2023	2023	Temporal positional lexicon expansion for federated learning based on hyperpatism detection	Ahmed, U.	Semeval-2019	English	U.S	DL	BERT	0.83	U/A	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	12/11/2023	Yes
8 ahmed_semisupervised_2023	2023	Semisupervised federated learning for temporal news hyperpatism detection	Ahmed, U.	Semeval-2019 by-article + by-publisher	English	U.S	DL	BERT	U/A	0.91	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	13/11/2023	Yes
9 azizov_notebook_2023	2023	Frank at checkthat! 2023: Detecting the political bias of news articles and news media	Azizov, D.	Task 3A	English	U.S	DL	CatBoost	0.69	0.69	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	13/11/2023	Yes
10 kim_close_2022	2022	CLoSE: Contrastive learning of subframe embeddings for political bias classification of news media	Kim, M.Y.	Framing Triplet Dataset	English	U.S	DL	multi-task BERT-based model	0.84	U/A	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	13/11/2023	Yes
11 naredla_detection_2022	2022	Detection of hyperpartisan news articles using natural language processing technique	Naredla, N.R.	Semeval-2019	English	U.S	ML	Random Forest	0.88	U/A	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	13/11/2023	Yes
12 liu_politics_2022	2022	POLITICS: pretraining with same-story article comparison for ideology prediction and stance detection	Lyu, Y.	Semeval-2019	English	U.S	DL	RoBERTa	0.85	0.85	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	13/11/2023	Yes
13 sridharan_automated_2022	2022	An automated news bias classifier using caenorhabditis elegans inspired recursive feedback network architecture	Sridharan, A.	Own	English	U.S	DL	Mesh Neural Network	0.45	U/A	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	15/11/2023	Yes
14 m_alzhrani_political_2022	2022	Political ideology detection of news articles using deep neural networks	M.Alzhrani, K.	Presidential	English	U.S	DL	HAN	0.91	0.90	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	16/11/2023	Yes
15 garg_role_2022	2022	Role of ELMo embedding in detecting fake news on social media	Garg, S.	Reuter	English	U.S	ML	Logistic Regression	U/A	0.93	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	13/11/2023	Yes
16 szwoch_creation_2022	2022	Creation of Polish Online News Corpus for Political Polarization Studies	Szwoch, J.	TVP Info, TVP 24	Polish	Poland			U/A	U/A	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	17/11/2023	Yes
17 snchez-junquera_detection_2021	2021	On the detection of political and social bias	Sánchez-Junquera, J.	Stereoimmigrants	Spanish	U.S	DL	BERT	0.86	0.83	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	13/11/2023	Yes
18 universitat_politecnica_de_valencia_spain_masking_2021	2021	Masking and transformer-based models for hyperpartisanship detection in news	Sánchez-Junquera, J.	The BuzzFeed-Webis Fake News Corpus 2016	English	U.S	DL	BERT	0.89	0.86	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	23/11/2023	Yes
19 li_using_2021	2021	Using social and linguistic information to adapt pretrained representations for political perspective identification	Li, C.	Semeval-2019	English	U.S	DL	LSTM	0.86	0.84	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	17/11/2023	Yes
20 gerald_ki_wei_huang_hyperpartisan_2021	2021	Hyperpartisan news classification with {ELMo} and bias feature	Gerald Ki Wei, H.	The BuzzFeed-Webis Fake News Corpus 2016	English	U.S	DL	CNN	U/A	0.73	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	21/11/2023	Yes
21 ruan_bias_2021	2021	Bias bubbles: Using semi-supervised learning to measure how many biased news articles are around us.	Ruan, Q.	Semeval-2019 by-article + by-publisher	English	U.S	DL	BERT	0.87	0.81	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	21/11/2023	Yes
22 aksenov_fine-grained_2021	2021	Fine-grained classification of political bias in german news: A data set and initial experiments	Aksenov, D.	GERMAN Dataset	German	Germany	ML	Random Forest	U/A	0.79	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	15/11/2023	Yes
23 university_politehnica_of_bucharest_topic-based_2021	2021	Topic-based Models with Fact Checking for Fake News Identification. - RoCHI - RoCHI	Dumitru, Vlad Cristian	Politifact	English	U.S			U/A	U/A	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	13/11/2023	Yes
24 cruz_document_2020	2020	On document representations for detection of biased news articles	Cruz, A.F.	Semeval-2019	English	U.S	DL	HAN	0.82	0.81	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	18/11/2023	Yes
25 roy_weakly_2020	2020	Weakly supervised learning of nuanced frames for analyzing polarization in news media	Roy, S.	Own	English	U.S	DL	LSTM	U/A	0.80	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	24/11/2023	Yes
26 tran_how_2020	2020	How biased are american media outlets? a framework for presentation bias regression	Tran, M.	PolNews	English	U.S	DL	BERT	U/A	U/A	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	21/11/2023	Yes
27 sharma_ideology_2020	2020	Ideology detection in the indian mass media	Sharma, A.	Own	English	India	DL	RNN	0.84	0.87	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	29/11/2023	Yes
28 baly_we_2020	2020	We can detect your bias: Predicting the political ideology of news articles	Baly, R.	Own	English	U.S	DL	BERT	0.72	U/A	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	29/11/2023	Yes
29 dumitru_fake_2019	2020	Fake and hyper-partisan news identification	Dumitru, V.C.	Own	English	U.S	ML	LSVM	0.93	0.81	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	14/11/2023	Yes
30 alzhrani_ideology_2020	2020	Ideology Detection of Personalized Political News Coverage: A New Dataset	Alzhrani, Khudran	Presidential	English	U.S	U/A	U/A	U/A	U/A	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	16/11/2023	Yes
31 gebhard_polusa_2020	2020	The POLUSA Dataset: 0.9M Political News Articles Balanced by Time and Outlet Popularity	Gebhard, Lukas	POLUSA	English	U.S	U/A	U/A	U/A	U/A	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	15/11/2023	Yes
32 lim_creating_2020	2020	Creating a dataset for fine-grained bias detection in news articles	Lim, Sora	The Annotated Data Dataset	English	U.S	U/A	U/A	U/A	U/A	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	15/11/2023	Yes
33 pierri_hoaxitaly_2020	2020	Hoaxitaly: a collection of Italian disinformation and fact-checking stories shared on Twitter in 2019	Pierri, Francesco	Own	Italian	Italy	U/A	U/A	U/A	U/A	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	17/11/2023	Yes
34 jiang_team_2019	2021	Team Bertha von Suttner at SemEval-2019 task 4: Hyperpartisan news detection using ELMo sentence representation convolutional network	Jiang, Y.	Semeval-2019	English	U.S	DL	CNN	0.82	0.81	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	22/11/2023	Yes
35 srivastava_vernon-fenwick_2019	2019	Vernon-fenwick at SemEval-2019 task 4: Hyperpartisan news detection using lexical and semantic features	Srivastava, V.	Semeval-2019	English	U.S	ML	Logistic Regression	0.82	0.82	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	29/11/2023	Yes
36 hanawa_sally_2019	2019	The Sally smedley hyperpartisan news detector at SemEval-2019 task 4	Hanawa, K.	Semeval-2019	English	U.S	ML	Linear Classifier	0.81	0.80	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	29/11/2023	Yes
37 isbister_dick-preston_2019	2019	Dick-preston and morbo at SemEval-2019 task 4: Transfer learning for hyperpartisan news detection	Isbister, T.	Semeval-2019	English	U.S	DL	LSTM	0.80	0.80	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	23/11/2023	Yes
38 yeh_tom_2019	2019	Tom jumbo-grumbo at SemEval-2019 task 4: Hyperpartisan news detection with GloVe vectors and SVM	Yeh, C.L.	Semeval-2019	English	U.S	ML	SVM	0.80	0.79	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	22/11/2023	Yes
39 palic_takelab_2019	2019	TakeLab at SemEval-2019 task 4: Hyperpartisan news detection	Palić, N.	Semeval-2019	English	U.S	ML	SVC	0.79	0.76	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	24/11/2023	Yes
40 da_silva_politically-oriented_2023	2019	Politically-oriented information inference from text	Da Silva, S.C.	Semeval-2019	English	U.S	DL	BERT	0.78	0.77	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	27/11/2023	Yes
41 mutlu_team_2019	2019	Team howard beale at SemEval-2019 task 4: Hyperpartisan news detection with BERT	Mutlu, O.	Semeval-2019	English	U.S	DL	BERT	0.78	0.76	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	15/11/2023	Yes
42 drissi_harvey_2019	2019	Harvey mudd college at SemEval-2019 task 4: The clint buchanan hyperpartisan news detector	Drissi, M.	Semeval-2019	English	U.S	DL	BERT	0.77	0.75	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	29/11/2023	Yes
43 stevanoski_team_2019	2019	Team ned leeds at SemEval-2019 task 4: Exploring language indicators of hyperpartisan reporting	Stevanoski, B.	Semeval-2019	English	U.S	ML	Random Forest	0.77	0.74	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	30/11/2023	Yes
44 lee_team_2019	2019	Team yeon-zi at SemEval-2019 task 4: Hyperpartisan news detection by de-noising weakly-labeled data	Lee, N.	Semeval-2019	English	U.S	DL	BERT	0.76	0.76	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	30/11/2023	Yes
45 nguyen_nlpuit_2019	2019	NLP@UIT at SemEval-2019 task 4: The paparazzo hyperpartisan news detector	Nguyen, D.V.	Semeval-2019	English	U.S	ML	SVM	0.75	0.74	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	29/11/2023	Yes
46 agerri_doris_2019	2019	Doris martin at {SemEval}-2019 task 4: Hyperpartisan news detection with generic semi-supervised features	Agerri, R.	Semeval-2019	English	U.S	ML	Maxent	0.74	0.73	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	19/11/2023	Yes
47 chen_harvey_2019	2019	Harvey mudd college at {SemEval}-2019 task 4: The carl kolchak hyperpartisan news detector	Chen, C.	Semeval-2019	English	U.S	ML	Naive Bayes	0.74	0.74	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	18/11/2023	Yes
48 joo_steve_2019	2019	Steve martin at {SemEval}-2019 task 4: Ensemble learning model for detecting hyperpartisan news	Joo, Y.	Semeval-2019	English	U.S	DL	CNN	0.74	0.70	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	16/11/2023	Yes
49 perez-almendros_cardiff_2019	2019	Cardiff university at {SemEval}-2019 task 4: Linguistic features for hyperpartisan news detection	Pérez-Almendros, C.	Semeval-2019	English	U.S	DL	CNN + LSTM	0.74	0.71	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	30/11/2023	Yes
50 saleh_team_2019	2019	Team {QCRI}-{MIT} at {SemEval}-2019 task 4: Propaganda analysis meets hyperpartisan news detection	Saleh, A.	Semeval-2019	English	U.S	ML	Logistic Regression	0.73	0.73	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	01/12/2023	Yes
51 cruz_team_2019	2019	Team fernando-pessa at {SemEval}-2019 task 4: Back to basics in hyperpartisan news detection	Cruz, A.	Semeval-2019	English	U.S	ML	Random Forest	0.72	0.67	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	03/12/2023	Yes
52 moreno_rouletabile_2019	2019	Rouletabile at {SemEval}-2019 task 4: Neural network baseline for identification of hyperpartisan publishers	Moreno, J.G.	Semeval-2019	English	U.S	DL	HAN	0.72	0.69	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	07/12/2023	Yes
53 sengupta_duluth_2019	2019	Duluth at {SemEval}-2019 task 4: The piquinto manterola hyperpartisan news detector	Sengupta, S.	Semeval-2019	English	U.S	ML	Logistic Regression	0.70	0.68	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	03/12/2023	Yes
54 zhang_ubc-nlp_2019	2019	{UBC}-{NLP} at {SemEval}-2019 task 4: Hyperpartisan news detection with attention-based bi-{LSTMs}	Zhang, C.	Semeval-2019	English	U.S	DL	LSTM	0.68	0.63	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	01/12/2023	Yes
55 zehe_team_2019	2019	Team xenophilus lovegood at {SemEval}-2019 task 4: Hyperpartisanship classification using convolutional neural networks	Zehe, A.	Semeval-2019	English	U.S	DL	CNN	0.67	0.74	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	13/11/2023	Yes
56 amazon_harvey_2019	2019	Harvey mudd college at {SemEval}-2019 task 4: The d.x. beamont hyperpartisan news detector	Amazon, E.	Semeval-2019	English	U.S	ML	Naive Bayes	0.65	0.73	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	13/11/2023	Yes
57 shaprin_team_2019	2019	Team jack ryder at {SemEval}-2019 task 4: Using {BERT} representations for detecting hyperpartisan news	Shaprin, D.	Semeval-2019	English	U.S	DL	BERT	0.64	0.64	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	01/12/2023	Yes
58 antonio_team_2019	2019	Team kermil-the-frog at {SemEval}-2019 task 4: Bias detection through sentiment analysis and simple linguistic features	Antonio, T.	Semeval-2019	English	U.S	ML	SVM	0.62	0.69	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	13/11/2023	Yes
59 farber_team_2019	2019	Team peter brinkmann at {SemEval}-2019 task 4: Detecting biased news articles using convolutional neural networks	Färber, M.	Semeval-2019	English	U.S	DL	CNN	0.60	0.70	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	01/12/2023	Yes
60 cramerus_team_2019	2019	Team kit kittredge at {SemEval}-2019 task 4: {LSTM} voting system	Cramerus, R.	Semeval-2019	English	U.S	DL	LSTM	0.58	0.68	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	13/11/2023	Yes
61 afsarmanesh_team_2019	2019	Team harry friberg at {SemEval}-2019 task 4: Identifying hyperpartisan news through editorially defined metatopics	Afsarmanesh, N.	Semeval-2019	English	U.S	Other	Gagavai Explorer	0.56	0.68	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	07/12/2023	Yes
62 baly_multi-task_2019	2019	Multi-task ordinal regression for jointly predicting the trustworthiness and the leading political ideology of news media	Baly, R.	MBFC	English	U.S	ML	Copula Ordinal Regression	U/A	U/A	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	01/12/2023	Yes
63 gupta_clark_2019	2019	Clark kent at {SemEval}-2019 task 4: Stylometric insights into hyperpartisan news detection	Gupta, V.	Semeval-2019	English	U.S	ML	XGBoost	0.55	0.28	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	01/12/2023	Yes
64 ning_team_2019	2019	Team peter-parker at {SemEval}-2019 task 4: {BERT}-based method in hyperpartisan news detection	Ning, Z.	Semeval-2019	English	U.S	DL	BERT	0.50	0.61	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	07/12/2023	Yes
65 bestgen_tintin_2019	2019	Tintin at {SemEval}-2019 task 4: Detecting hyperpartisan news article with only simple tokens	Bestgen, Y.	Semeval-2019 by-publisher	English	U.S	ML	Logistic Regression	0.70	0.68	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	07/12/2023	Yes
66 papadopoulou_brenda_2019	2019	Brenda starr at {SemEval}-2019 task 4: Hyperpartisan news detection	Papadopoulou, O.	Semeval-2019 by-publisher	English	U.S	DL	CNN	0.66	0.70	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	13/11/2023	Yes
67 chakravartula_fermi_2019	2019	Fermi at {SemEval}-2019 task 4: The sarah-jane-smith hyperpartisan news detector	Chakravartula, N.	Semeval-2019 by-publisher	English	U.S	ML	Randn Forest	0.61	0.66	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	01/12/2023	Yes
68 huang_hyperpartisan_2019	2019	Hyperpartisan news and articles detection using {BERT} and {ELMo}	Huang, G.K.W.	Semeval-2019 by-article + by-publisher	English	U.S	DL	BERT	0.68	U/A	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	13/11/2023	Yes
69 gangula_detecting_2019	2019	Detecting political bias in news articles using headline attention	Gangula, R.R.R.	Telugu	Telugu	India	DL	HAN	0.89	U/A	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	04/12/2023	Yes
70 pottthast_stylometric_2018	2019	A stylometric inquiry into hyperpartisan and fake news	Pottthast, M.	The BuzzFeed-Webis Fake News Corpus 2016	English	U.S	ML	U/A	0.75	0.78	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	13/11/2023	Yes
71 alabdulkarim_spider-jerusalem_2019	2019	Spider-jerusalem at {SemEval}-2019 task 4: Hyperpartisan news detection	Alabdulkarim, A.	Semeval-2019	English	U.S	ML	SVM	0.74	0.71	RAYYAN-INCLUSION: ("Michele"==>"Included", "Davide"==>"Included")	04/12/2023	Yes
72 kiesel_semeval-2019_2019	2019	SemEval-2019 task 4: Hyperpartisan news detection	Kiesel, J.	Semeval-									