Reference	Publication Year	Title	First Author	Dataset	Language	Media's Country	Method	Model	Accuracy	F1
lyu2024computational	2024	Computational assessment of hyperpartisanship in news titles	Lyu, H.	Own	English	U.S	DL	BERT	0.84	0.78
omidi-shayegan-etal-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
Mets_PLOS	2024	Automated stance detection in complex topics and small languages: The challenging case of immigration in polarizing news media	Mets, Mark AND Karjus, Andres AND Ibrus, Indrek AND Schich, Maximilian	Own	Estonian	Estonia	Other		U/A	U/A
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
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
smadu_fake_2023	2023	From Fake to Hyperpartisan News Detection Using Domain Adaptation	Smădu, R.A.	Semeval-2019	English	U.S	DL	RoBERTa	0.84	0.83
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
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
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
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
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
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
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
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
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
szwoch_creation_2022	2022	Creation of Polish Online News Corpus for Political Polarization Studies	Szwoch, J. and Staszkow, M. and Rzepka, R. and Araki, K.	TVP Info, TVP 24	Polish	Poland			U/A	U/A
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
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
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
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
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
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
university_politehnica_of_bucharest_topic-based_2021	2021	Topic-based Models with Fact Checking for Fake News Identification. - RoCHI - RoCHI	Dumitru, Vlad Cristian and Rebedea, Traian	Politifact	English	U.S			U/A	U/A
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
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
tran_how_2020	2020	How biased are american media outlets? a framework for presentation bias regression	Tran, M.	PoliNews	English	U.S	DL	BERT	U/A	U/A
sharma_ideology_2020	2020	Ideology detection in the indian mass media	Sharma, A.	Own	English	India	DL	RNN	0.84	0.87
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
dumitru_fake_2019	2020	Fake and hyper-partisan news identification	Dumitru, V.C.	Own	English	U.S	ML	LSVM	0.93	0.81
alzhrani_ideology_2020	2020	Ideology Detection of Personalized Political News Coverage: A New Dataset	Alzhrani, Khudran	Presidential	English	U.S			U/A	U/A
gebhard_polusa_2020	2020	The POLUSA Dataset: 0.9M Political News Articles Balanced by Time and Outlet Popularity	Gebhard, Lukas and Hamborg, Felix	POLUSA	English	U.S			U/A	U/A
lim_creating_2020	2020	Creating a dataset for fine-grained bias detection in news articles - Forum on Data Engineering and Information Management - Forum on Data Engineering and Information Management	Lim, Sora and Jatowt, Adam and Masatoshi, Y	The Annotated Data Dataset	English	U.S			U/A	U/A
pierri_hoaxitaly_2020	2020	HoaxItaly: a collection of Italian disinformation and fact-checking stories shared on Twitter in 2019	Pierri, Francesco and Artoni, Aless and ro and Ceri, Stefano	Own	Italian	Italy			U/A	U/A
jiang_team_2019	2019	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
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
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
isbister_dick-preston_2019	2019	Dick-preston and morbo at SemEval-2019 task 4: Transfer learning for hyperpartisan news detection	Isibster, T.	Semeval-2019	English	U.S	DL	LSTM	0.80	0.80
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
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
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
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
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
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
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
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
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
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
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
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
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
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
moreno_rouletabille_2019	2019	Rouletabille 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
sengupta_duluth_2019	2019	Duluth at {SemEval}-2019 task 4: The pioquinto manterola hyperpartisan news detector	Sengupta, S.	Semeval-2019	English	U.S	ML	Logistic Regression	0.70	0.68
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
zehe_team_2019	2019	Team xenophilius 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
amason_harvey_2019	2019	Harvey mudd college at {SemEval}-2019 task 4: The d.x. beaumont hyperpartisan news detector	Amason, E.	Semeval-2019	English	U.S	ML	Naive Bayes	0.65	0.73
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
anthonio_team_2019	2019	Team kermit-the-frog at {SemEval}-2019 task 4: Bias detection through sentiment analysis and simple linguistic features	Anthonio, T.	Semeval-2019	English	U.S	ML	SVM	0.62	0.69
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
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
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
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
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
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
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
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
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	Random Forest	0.61	0.66
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
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
potthast_stylometric_2018	2019	A stylometric inquiry into hyperpartisan and fake news	Potthast, M.	The BuzzFeed-Webis Fake News Corpus 2016	English	U.S	ML	U/A	0.75	0.78
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
kiesel_semeval-2019_2019	2019	SemEval-2019 task 4: Hyperpartisan news detection	Kiesel, J. and Mestre, M. and Shukla, R. and Vincent, E. and Adineh, P. and C	Semeval-2019	English	U.S			U/A	U/A
Norregaard_NELA	2019	NELA-GT-2018: A large multi-labelled news dataset for the study of misinformation in news articles - Proceedings of the international AAAI conference on web and social media - Procee	N{\o}rregaard, Jeppe and Horne, Benjamin D and Adal{\i}, Sibel	NELA-2018	English	U.S			U/A	U/A
fan-etal-2019-plain	2019	In plain sight: Media bias through the lens of factual reporting	\bibinfo{author}{Fan, L.}, \bibinfo{author}{White, M.}, \bibinfo{author}{Sharma,	BASIL	English	U.S			U/A	U/A
li-goldwasser-2019-encoding	2019	Encoding social information with graph convolutional networks for{P}olitical perspective detection in news media	Li, C.	Allsides	English	U.S			U/A	U/A
kulkarni_multi-view_2018	2018	Multi-view models for political ideology detection of news articles	Kulkarni, V.	Own	English	U.S	Other	MVDAM	0.80	0.79
knauth_orwellian-times_2019	2018	Orwellian-times at {SemEval}-2019 task 4: A stylistic and content-based classifier	Knauth, J.	Semeval-2019	English	U.S	ML	SVM	0.67	0.69
baly-etal-2018-predicting	2018	Predicting factuality of reporting and bias of news media sources	Baly, R., Karadzhov, G. Alexandrov, D.}, \bibinfo{author}{Glass, J.}, \bibinfo{a	MBCF	English	U.S			U/A	U/A
Horne_News	2018	Sampling the news producers: {A} large news and feature data set for the study of the complex media landscape	\bibinfo{author}{Horne, B.D.}, \bibinfo{author}{Dron, W.}, \bibinfo{author}{Khedi	NELA-2017	English	U.S			U/A	U/A
Lim2018UnderstandingCO	2018	Understanding characteristics of biased sentences in news articles	\bibinfo{author}{Jeong Lim, S.}, \bibinfo{author}{Jatowt, A.}, \bibinfo{author}{Y	Own	English	U.S			U/A	U/A
baumer-etal-2015-testing	2015	Testing and comparing computational approaches for identifying the language of framing in political news	\bibinfo{author}{Baumer, E.}, \bibinfo{author}{Elovic, E.}, \bibinfo{author}{Qin,	Own	English	U.S			U/A	U/A