Nr Author					Data sources					4		Input Data Type			NLP Approach								Output	
	Year	Social Networks	News Articles	Security Reports	Public security repositories (CVEs, exploit DBs, etc.)	CII Feeds	Underground Forums	Darknet marketplace	websites	Did the authors provide any reason for the selection of THIS data source?		Unstructured (e.g., posts)	Semi-structured (e.g. html files for web pages, json, xml, or similar)	Structured (e.g, STIX)	Named Entit Recognition (NER)		Sentimen Analysis			Keyword Extraction	Type of CII	unstructured CTI	semi-structure CTI	ed structured CTI (STIX)
Shin	2021	x								Yes	No	x			x			x		x		x		
Adewopo	2020	x		x	x		x			Yes	No	x	x					x			Technical/Tactical	x		
Zhao	2020	x	x	x			x		x	No	No	x	x				x	x			Technical/Tactical	x	x	
Koloveas	2021	x								Yes	No	x	x		x		x	x		x	Operational			x
Tekin	2021	x								Yes	Yes	x						x			Technical/Tactical	x	x	
Kristiansen	2020	x								Yes	Yes	x				x		x		x	Technical/Tactical	x	x	
Rodriguez	2020	x	x	x						Yes	Yes	x				x		x			Technical/Tactical	x		
Azevedo	2019					x				No	No	x*				x		x	x		Technical/Tactical	x		
Hossen	2021						x			Yes	Yes	x				x		x			Technical/Tactical	x		
) Guo	2023					x				No	No	x	x						x	x	Operational	x		
Bose	2021	x								No	No	x				x	x				Operational	x		
! Kadoguchi	2020						x			Yes	No	x				x					Technical/Tactical	x		
Zhou	2022		x	x						No	No	x			x					x	Technical/Tactical	x		
Sakellariou	2023									No	No	x				x	x			x	Technical/Tactical			x
Arnold	2019						x	x		Yes	No	x				x	x			x	Strategic	x		
Tundis	2022	x								Yes	No	x					x				Operational	x		
Cha	2020					x				No	No	x							x		Technical/Tactical	x		
Ampel	2020				x		x	x		Yes	No	x	x			x		x			Technical/Tactical	x		
Purba	2023	x			x					No	No	x	x					x			Technical/Tactical	x		
Sun Sun	2021			x						Yes	No		x					x	x		Technical/Tactical			x
Huang	2020	x	x		x				x	Yes	No	x	x			x	x	x			Operational		x	
Zenebe	2019						x			Yes	No	x						x			Technical/Tactical	x		
Sufi	2023	x								Yes	Yes	x I					x				Strategic	x		
Sufi	2023	x			х					No	No	x	x				x				Strategic	x		
Furumoto	2021						x	x	x	Yes	No	x	x						x		Technical/Tactical	x		
Gautam	2019						x			Yes	Yes	x						x		TC		x		
Panagiotou	2021		x							Yes	Yes	x	x		x			x			Technical/Tactical	x		