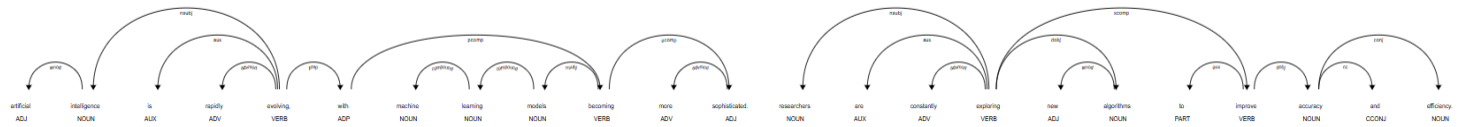


Text Preprocessing using SpaCy

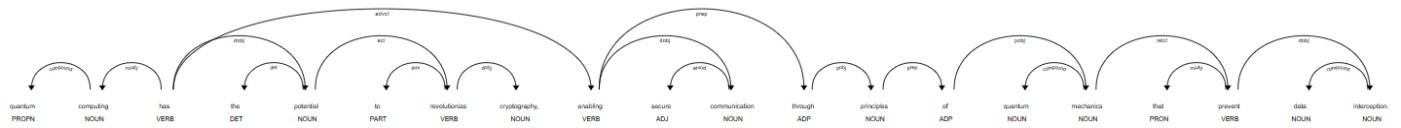
English Texts:

1. Artificial intelligence is rapidly evolving, with machine learning models becoming more sophisticated. Researchers are constantly exploring new algorithms to improve accuracy and efficiency.



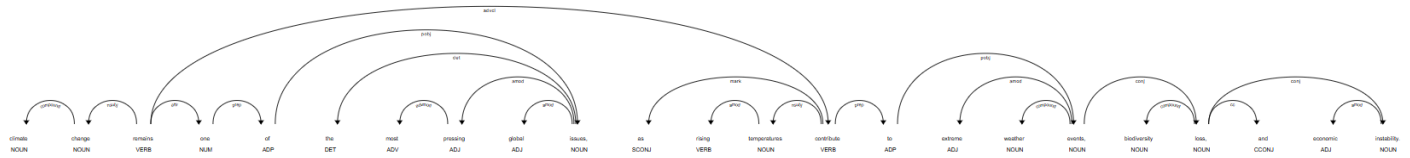
Token	Lemma	POS	Tag	Entity Type (NER)
artificial	artificial	ADJ	JJ	
intelligence	intelligence	NOUN	NN	
rapidly	rapidly	ADV	RB	
evolving	evolve	VERB	VBG	
machine	machine	NOUN	NN	
learning	learning	NOUN	NN	
models	model	NOUN	NNS	
sophisticated	sophisticated	ADJ	JJ	
researchers	researcher	NOUN	NNS	
constantly	constantly	ADV	RB	
exploring	explore	VERB	VBG	
new	new	ADJ	JJ	
algorithms	algorithm	NOUN	NNS	
improve	improve	VERB	VB	
accuracy	accuracy	NOUN	NN	
efficiency	efficiency	NOUN	NN	

- Quantum computing has the potential to revolutionize cryptography, enabling secure communication through principles of quantum mechanics that prevent data interception.



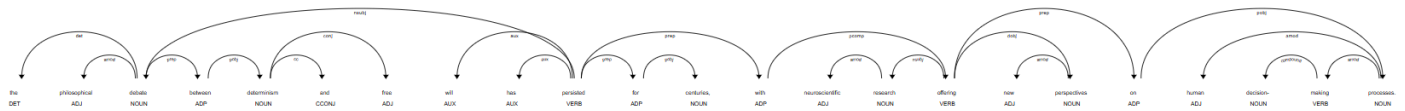
Token	Lemma	POS	Tag	Entity Type (NER)
quantum	quantum	PROPN	NNP	ORG
computing	computing	NOUN	NN	
potential	potential	NOUN	NN	
revolutionize	revolutionize	VERB	VB	
cryptography	cryptography	NOUN	NN	
enabling	enable	VERB	VBG	
secure	secure	ADJ	JJ	
communication	communication	NOUN	NN	
principles	principle	NOUN	NNS	
quantum	quantum	NOUN	NN	ORG
mechanics	mechanic	NOUN	NNS	
prevent	prevent	VERB	VBP	
data	datum	NOUN	NNS	
interception	interception	NOUN	NN	

3. Climate change remains one of the most pressing global issues, as rising temperatures contribute to extreme weather events, biodiversity loss, and economic instability.



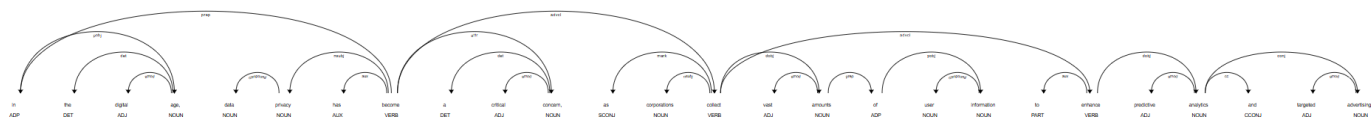
Token	Lemma	POS	Tag	Entity Type (NER)
climate	climate	NOUN	NN	
change	change	NOUN	NN	
remains	remain	VERB	VBZ	
one	one	NUM		
of	of	ADP		
the	the	DET		
most	most	ADV		
pressing	pressing	ADJ	JJ	
global	global	ADJ	JJ	
issues	issue	NOUN	NNS	
as	as	SCONJ		
rising	rise	VERB	VBG	
temperatures	temperature	NOUN	NNS	
contribute	contribute	VERB	VBP	
to	to	ADP		
extreme	extreme	ADJ	JJ	
weather	weather	NOUN	NN	
events	event	NOUN	NNS	
biodiversity	biodiversity	NOUN	NN	
loss	loss	NOUN	NN	
and	and	CCONJ		
economic	economic	ADJ	JJ	
instability	instability	NOUN	NN	

4. The philosophical debate between determinism and free will has persisted for centuries, with neuroscientific research offering new perspectives on human decision-making processes.



Token	Lemma	POS	Tag	Entity Type (NER)
philosophical	philosophical	ADJ	JJ	
debate	debate	NOUN	NN	
determinism	determinism	NOUN	NN	
free	free	ADJ	JJ	
persisted	persist	VERB	VBN	
centuries	century	NOUN	NNS	DATE
neuroscientific	neuroscientific	ADJ	JJ	ORG
research	research	NOUN	NN	ORG
offering	offer	VERB	VBG	ORG
new	new	ADJ	JJ	
perspectives	perspective	NOUN	NNS	
human	human	ADJ	JJ	
decision	decision	NOUN	NN	
making	make	VERB	VBG	
processes	process	NOUN	NNS	

- In the digital age, data privacy has become a critical concern, as corporations collect vast amounts of user information to enhance predictive analytics and targeted advertising.



Token	Lemma	POS	Tag	Entity Type (NER)
digital	digital	ADJ	JJ	
age	age	NOUN	NN	
data	datum	NOUN	NNS	
privacy	privacy	NOUN	NN	
critical	critical	ADJ	JJ	
concern	concern	NOUN	NN	
corporations	corporation	NOUN	NNS	
collect	collect	VERB	VBP	
vast	vast	ADJ	JJ	
amounts	amount	NOUN	NNS	
user	user	NOUN	NN	
information	information	NOUN	NN	
enhance	enhance	VERB	VB	
predictive	predictive	ADJ	JJ	
analytics	analytic	NOUN	NNS	
targeted	target	VERB	VBD	
advertising	advertising	NOUN	NN	

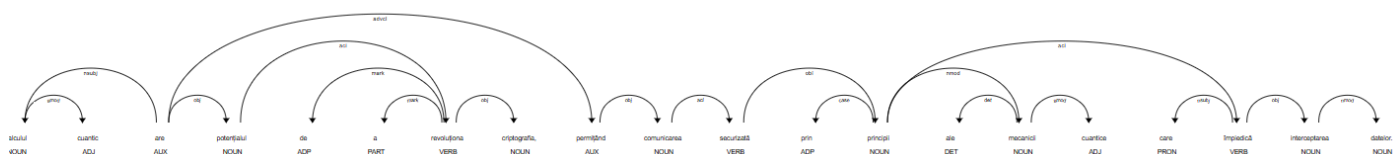
Romanian Texts:

6. Inteligența artificială evoluează rapid, iar modelele de învățare automată devin din ce în ce mai sofisticate. Cercetătorii explorează constant noi algoritmi pentru a îmbunătăți acuratețea și eficiența.



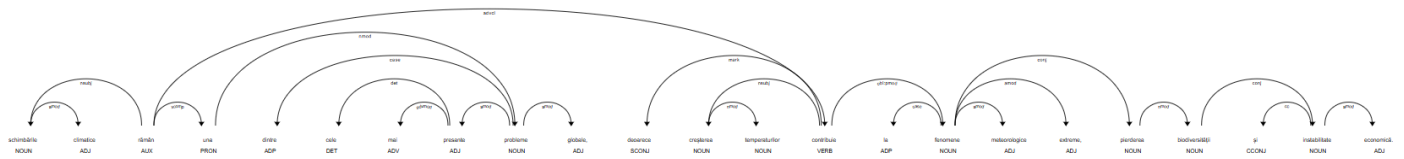
Token	Lemma	POS	Tag	Entity Type (NER)
inteligența	inteligență	NOUN	Ncfsry	
artificială	artificial	ADJ	Afpfsrn	
evoluează	evolua	VERB	Vmip3	
rapid	rapid	ADV	Rgp	
modelele	model	NOUN	Ncfpry	
învățare	învățare	NOUN	Ncfsrn	
automată	automat	ADJ	Afpfsrn	
devin	deveni	AUX	Vmip3p	
sofisticate	sofistica	VERB	Vmp--pf	
cercetătorii	cercetător	NOUN	Ncmpry	PERSON
explorează	explora	VERB	Vmip3	
constant	constant	ADV	Rgp	PRODUCT
algoritmi	algoritmi	NOUN	Ncfsrn	
îmbunătăți	îmbunătăți	VERB	Vmnp	
acuratețea	acuratețe	NOUN	Ncfsry	
eficiența	eficiență	NOUN	Ncfsry	

7. Calculul cuantic are potențialul de a revoluționa criptografia, permițând comunicarea securizată prin principii ale mecanicii cuantice care împiedică interceptarea datelor.



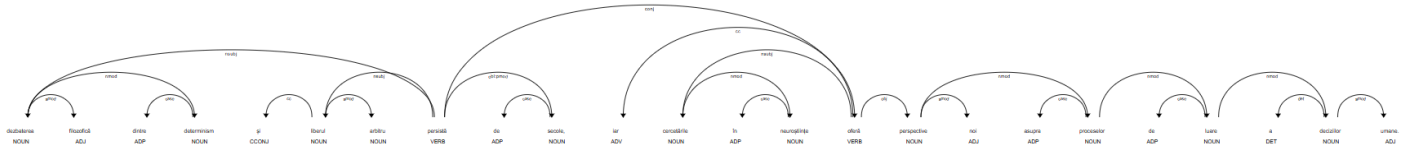
Token	Lemma	POS	Tag	Entity Type (NER)
calculul	calcul	NOUN	Ncmsry	
cuantic	cuantic	ADJ	Afpms-n	
potențialul	potențial	NOUN	Ncmsry	
de		ADP		
a		PART		
revoluționa	revoluționa	VERB	Vmnp	
criptografia	criptografie	NOUN	Ncfsry	
permițând	permița	AUX	Vmg	
comunicarea	comunicare	NOUN	Ncfsry	
securizată	securiza	VERB	Vmp--sf	
prin		ADP		
principii	princip	NOUN	Ncfp-n	
ale		DET		
mecanicii	mecanică	NOUN	Ncfsoy	
cuantice	cuantic	ADJ	Afpfson	
care		PRON		
împiedică	împiedica	VERB	Vmis3s	
interceptarea	interceptare	NOUN	Ncfsry	
datelor	dată	NOUN	Ncfpoy	

8. Climate change remains one of the most pressing global issues, as rising temperatures contribute to extreme weather events, biodiversity loss, and economic instability. Schimbările climatice rămân una dintre cele mai presante probleme globale, deoarece creșterea temperaturilor contribuie la fenomene meteorologice extreme, pierderea biodiversității și instabilitate economică.



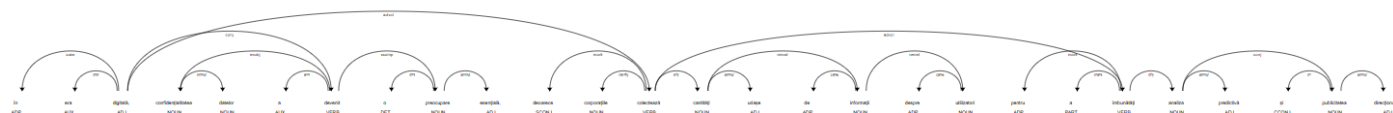
Token	Lemma	POS	Tag	Entity Type (NER)
schimbările	schimbare	NOUN	Ncfpry	
climatice	climatic	ADJ	Afpfp-n	
rămân	rămâne	AUX	Vmip3p	
presante	presant	ADJ	Afpfp-n	
probleme	problemă	NOUN	Ncfp-n	
globale	global	ADJ	Afpfp-n	
creșterea	creștere	NOUN	Ncfsry	
temperaturilor	temperature	NOUN	Ncfpoy	PERSON
contribuie	contribui	VERB	Vmip3	
fenomene	fenomen	NOUN	Ncfp-n	
meteorologice	meteorologic	ADJ	Afpfp-n	
extreme	extremă	NOUN	Ncfp-n	
pierderea	pierdere	NOUN	Ncfsry	
biodiversității	biodiversitate	NOUN	Ncfsoy	
instabilitate	instabilita	VERB	Vmp--pf	
economică	economic	ADJ	Afpfsrn	

9. Dezbaterea filozofică dintre determinism și liberul arbitru persistă de secole, iar cercetările în neuroștiințe oferă perspective noi asupra proceselor de luare a deciziilor umane.



Token	Lemma	POS	Tag	Entity Type (NER)
dezbaterea	dezbatare	NOUN	Ncfsry	
filozofică	filozofic	ADJ	Afpfsrn	
determinism	determinism	NOUN	Ncms-n	
liberul	liber	NOUN	Ncmsry	PERSON
arbitru	arbitru	NOUN	Ncms-n	
persistă	persista	VERB	Vmis3s	
secole	secol	NOUN	Ncfp-n	
cercetările	cercetăru	NOUN	Ncfpry	
neuroștiințe	neuroștiință	NOUN	Ncfp-n	PRODUCT
oferă	oferi	VERB	Vmip3	
perspective	perspectivă	NOUN	Ncfp-n	
proceselor	proces	NOUN	Ncfpoy	
luare	luare	NOUN	Ncfsrn	
deciziilor	decizie	NOUN	Ncfpoy	
umane	uman	ADJ	Afpfp-n	

10. În era digitală, confidențialitatea datelor a devenit o preocupare esențială, deoarece corporațiile colectează cantități uriașe de informații despre utilizatori pentru a îmbunătăți analiza predictivă și publicitatea direcționată.



Token	Lemma	POS	Tag	Entity Type (NER)
digitală	digital	ADJ	Afpfsrn	
confidențialitatea	confidențialitate	NOUN	Ncfsry	
datelor	dată	NOUN	Ncfpoy	
devenit	deveni	VERB	Vmp--sm	
preocupare	preocupare	NOUN	Ncfsrn	
esențială	esențial	ADJ	Afpfsrn	
corporațiile	corporațiiil	NOUN	Ncfpry	
colectează	colecta	VERB	Vmip3	
cantități	cantitate	NOUN	Ncfp-n	
uriaeșe	uriaeș	ADJ	Afpfp-n	
informații	informație	NOUN	Ncfp-n	
utilizatori	utilizator	NOUN	Ncmp-n	PERSON
îmbunătăți	îmbunătăți	VERB	Vmnp	
analiza	analiză	NOUN	Ncfsry	
predictivă	predictiv	ADJ	Afpfsrn	PRODUCT
publicitatea	publicitate	NOUN	Ncfsry	
direcționată	direcționat	ADJ	Afpfsrn	