



AGENDA					
Machine Learning in the past;					
Machine Learning nowadays;					
Security and trust;					
Attacks on AI systems;					
Discussions;					
UnB	3/50				

Machine Learning in the past

- Before 1950 Statical Methods research
- 1950 The real start...

UnB

- The Dartmouth Summer Research Project on Artificial Intelligence in 1956 summer workshop - artificial intelligence as a field.
- John McCarthy, Marvin Minsky, Nathaniel Rochester and Claude Shannon.















Machine Learning in the past			
 •2000 – 2010 • Methods like Support-Vector Clustering starts • unsupervised machine learning methods become widespread 			
 •2010 – 2020 •Deep Learning (spurs huge advances in vision and text processing) •Generative AI 			
UnB 11/50			

AGENDA				
Machine Learning in the past;				
Machine Learning nowadays;				
Security and trust;				
Attacks on AI systems;				
Discussions;				
UnB 12	12/50			











Machine Learning nowadays						
 We saw things like this few years ago 						
	Malware	Score Before	Score After			
	CoinMiner	-826	884			
Al within	Dridex	-999	996			
	Emotet	-923	625			
cybersecurity	Gh0stRAT	-975	998			
	Kovter	-999	856			
	Nanobot	-971	999			
	Pushdo	-999	999			
	Qakbot	-998	991			
	Trickbot	-973	774			
	Zeus	-997	997			
UnB https://skylightcyber.com/2019/07/18/cylance-i-kill-you/ 18/50						





Machine Learning nowadays

•We saw things like this few years ago...









Input

UnB 🗸

Output

21/50











Machine Learning nowadays

•We are seeing things like this these days...

Sam Altman, chief executive of ChatGPT maker OpenAI, has warned people not to expect artificial intelligence to do all the work for them, saying the technology is "far from perfect" and does not offer a shortcut to building great businesses. Mr Altman made a surprise appearance at Microsoft annual Build developer conference in Seattle early Wednesday morning (Australian time), and offered a glimpse to where AI is headed and gave some advice to entrepreneurs. He was speaking after Microsoft chief executive Satya Nadella announced a suite of updates to the company's Copilot AI platform, including a Teams Copilot that aims to lift productivity across departments or entire companies rather than individual users. OpenAI's Altman warns on 'losing sight in AI gold rush'



OpenAI CEO Sam Altman speaking at the Microsoft Build conference this week. Picture: Jason Redmond/A

By **JARED LYNCH** 7:14AM MAY 22, 2024

UnB https://archive.is/47BCN













33

Security and trust ≡ Google Scholar "trust in Ilms" Articles About 99 results 0.05 sec) Any time Enhancing Trust in LLMs: Algorithms for Comparing and Interpreting LLMs [PDF] arxiv.org Since 2024 NB Brown - arXiv preprint arXiv:2406.01943, 2024 - arxiv.org Since 2023 This paper surveys evaluation techniques to enhance the trustworthiness and understanding of Large Language Models (LLMs). As reliance on LLMs grows, ensuring their reliability, . Since 2020 ☆ Save 奶 Cite Related articles ≫ Custom range Beyond algorithmic trust: interpersonal aspects on consent delegation to LLMs Sort by relevance Z Sassi, M Hahn, S Eickmann... - Journal of Medical ..., 2024 - jme.bmj.com Sort by date ... Therefore, when discussing questions about trust in LLMs tasked with obtaining informed ... interpersonal aspects of trust in their reflections on trust in LLMs. With this in mind, we wanted ... Any type $\cancel{2}$ Save $\cancel{50}$ Cite Related articles All 5 versions Review articles Large Language Models and User Trust: Focus on Healthcare [PDF] arxiv.org include patents A Choudhury, Z Chaudhry - arXiv preprint arXiv:2403.14691, 2024 - arxiv.org include citations ... This paper explores the evolving relationship between clinician trust in LLMs, the transformation of data sources from predominantly human-generated to Al-generated content, and the ... Create alert ☆ Save 50 Cite Cited by 2 Related articles All 2 versions ≫ UnB 34/50

=	Google Scholar	"trust" "Large Language Model" "devsecops"	
•	Articles	About 25 results 0.08 sec)	
<	Any time Since 2024 Since 2023 Since 2020 Custom range	Al for DevSecOps : A Landscape and Future Opportunities <u>M Fu</u> , <u>J Pasuksmit</u> , <u>C Tantithamthavom</u> - arXiv preprint arXiv:2404.04839, 2024 - arxiv.org DevSecOps paradigm simultaneously. This paper seeks to contribute to the critical intersection of Al and DevSecOps identifying avenues for enhancing security, trust , and e□ciency in ☆ Save 𝔅 Cite Cited by 2 Related articles All 3 versions ≫	[PDF] arxiv.org
	Sort by relevance Sort by date	The Convergence of Al/ML and DevSecOps : Revolutionizing Software Development N Pakalapati, S Venkatasubbu, SMK Sistla - Journal of Knowledge, 2023 - iklst.org	[PDF] jklst.org
	Any type Review articles	(ML) with DevSecOps represents a groundbreaking /ML technologies into the DevSecOps framework, revolutionizing for leveraging Al/ML in DevSecOps . Topics addressed include ☆ Save 切 cite Related articles ≫	
	 include patents ✓ include citations 	From LLMOps to DevSecOps for GenAl K Huang, <u>V Manral</u> , W Wang - Generative Al Security: Theories and, 2024 - Springer	
	Create alert	chooses an appropriate pre-trained large language model based on the specific needs of can lead to dissatisfaction or loss of trust . Ensuring availability requires careful planning	



















AGENDA				
Machine Learning in the past;				
Machine Learning nowadays;				
Security and trust;				
Attacks on AI systems;				
Discussions;				
UnB	45/50			









