kaspersky expert training

Large language models security

Course program

Nº	Track	What you will learn	What you will practice	Lesson	Practice	Evaluation
00	About the course	About the learning	_	About the learning process		-
		processAbout your trainer		Course intro		
		Course intro		Introduction to Virtual Lab		
	Attacks on LLMs	 LLM security intro Jailbreaks: manual attack and automated jailbreaks Alignment removal Prompt injection and prompt extraction Token smuggling and sponge attacks 	Understanding of how the attacks on LLMs work	Course intro	Lab 01	
					Task 1. Querying open API	
				LLM security intro	Task 2. Dialogue management	
				Jailbreaks: manual attacks	Task 3. Direct prompt injection	Checkpoint quiz
					Task 4. Token smuggling	
				Automated jailbreaks	Task 5. Obfuscating the output	
01					Task 6. Prompt extraction	
				Alignment removal	Task 7. Phishing attack via RAG poisoning	
					Task 8. Running a tool	
				Prompt injections	Task 9. Opensource jailbreaks	
				Prompt extraction and token smuggling	Task 10. Prompt Injection + Past Tense Jailbreak	
				Attacks on LLMs: recap	Task 11. BoN. Implementing the jailbreak	
					 Task 12. BoN. LLM-as-judge. Prompt 	
	LLM defenses	 Why and how to protect LLMs 	Protecting your LLM applications from various attacks, including using LLM to protect itself	Why and how to protect LLMs	Lab 02	Checkpoint quiz
		 Model-level defenses: 		Model-level defenses: training	Task 1. Prompt modifier	
02		alignment and unlearning			Task 2. Sandwich prompting	
02		 Prompt-level, system- level and service-level 		Model-level defenses: unlearning	Task 3. Document enclosure	
		defenses			Task 4. Spotlighting	
		 LLM Security Toolbox 		Prompt-level defenses	Task 5. Guarded conversation	

Nº	Track	What you will learn	What you will practice	Lesson	Practice	Evaluation
				System-level defenses	Task 6. LLM-based prompt injection detection	
				Service-level defenses	Task 7. LLM moderation	
				LLM defenses: recap	Task 8. Detecting attacks using perplexity	
					Task 9. Get started with Garak	
				LLM Security Toolbox	Task 10. Get started with LLM-guard	
		 Approaches to LLM Security Analysis 		Approaches to LLM Security Analysis		
03	LLM Security Frameworks	· Real cases		LLM Security: cases		Checkpoint quiz
		 Further study and recap of the topic 		LLM Security: further study and recap		

Own the knowledge, outsmart the threat

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