









to compromise Computer Networks

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GMV







Application of groundbreaking artificial-intelligence technology (dubbed "Artificial Immune Systems") for early fraud detection.



GMV is chosen by the **European Space Agency** (ESA) to conduct an analysis of **cybersecurity risks** and set up a policy that establishes a series of control recommendations for the space missions.



GMV developed *SimuIIT*, the **only product of its category**. It calculates the resilience, the recuperation capacity of an information system asset by asset, with the objective of **protecting critical infrastructures** from possible cyber-attacks and guaranteeing the continuity of its activity.



About Me



João Sequeira

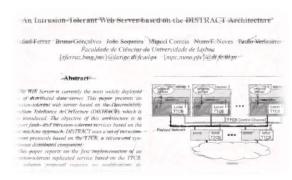
Director of SES - Cybersecurity Unit Portugal

Over 18 years experience in IT & Cybersecurity

- Unleashing hacker's mindset to fortify defenses.
- Safeguarding applications with resilient measures.
- Proactively mitigating vulnerabilities in the digital landscape.
- Staying ahead of regulations, ensuring cybersecurity best practices.

Curious about AI

• Harnessing the power of artificial intelligence to assist Pentesters becoming more efficient and accurate identification of vulnerabilities.





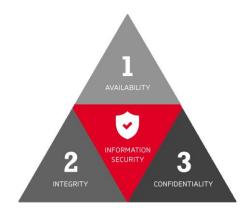


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Embracing Proactive Cybersecurity Measures.

Technology has enhanced business communication, driving unparalleled efficiency. But new benefits also bring new risks, therefore companies need to adopt a proactive stance towards cybersecurity.







Why Penetration Testing

Simulate the actions an attacker could perform

One effective way to identify vulnerabilities and understand risk levels is through penetration testing.

Penetration testing provides valuable insights into potential weaknesses and entry points that malicious actors could exploit.



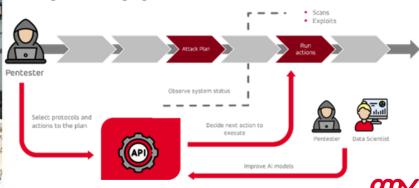


Leveraging AI for Penetration Testing

Train the system in a simulated scenario

The AI model is trained with reinforcement learning and integrated with hacking tools to execute actions

It learns from a vast array of attack scenarios and past pentesting plans, allowing it to adapt and evolve alongside emerging threats.





Enhancing Penetration Testing with LLMs

Increases efficiency, reducing human errors

Facilitates Information Gathering

Helps phishing campaigns

Helps Generate Payloads for Exploitation

Vulnerability Assessment

Report Generation





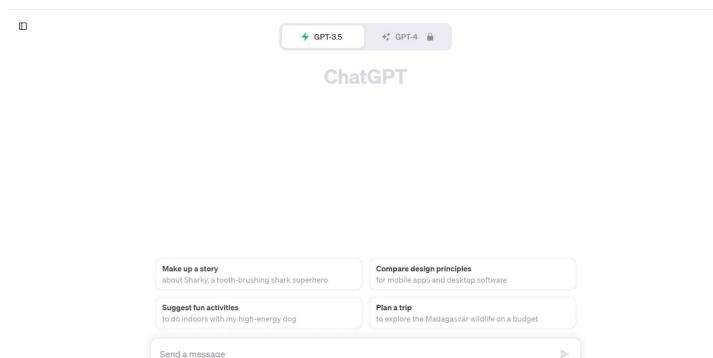
Where LLMs Can Help

- · Write convincing phishing emails for credential Harvesting
- Help create the web page
- Planning the tasks to be performed during an engagement
- Suggesting test tools and the next steps
- Suggesting tool parameters/commands to use
- Interpret and summarize the outputs
- Find Vulnerabilities in Code





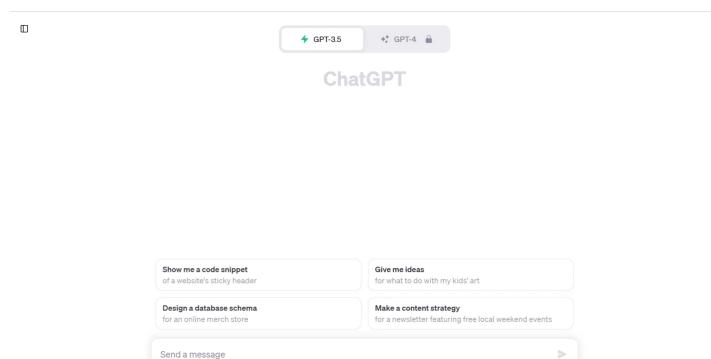
Launch a Phishing Email





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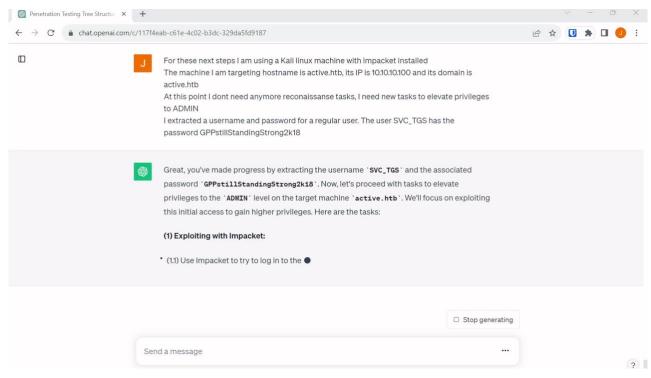
Exploit Vulnerabilities





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Exploit a Domain Controller





GMV Al-enhanced approach

- GMV's AI-enhanced pentesting capabilities enable security teams to more efficiently surface threats and remediate vulnerabilities. Our approach significantly shortens the time required to conduct comprehensive assessments without compromising quality or accuracy.
 - _ This is done without compromising quality or accuracy, as AI only assists human testers it does not replace them. By reducing the human hours needed through AI acceleration, we are able to package pentesting services competitively while maintaining our commitment to a first-class service with zero false positives.



Al Reconaissance	Reconaissance	Al Assessment	Manual Assesment	Reporting	Remediation	Tracking	Retesting
Discovery driven by Al.	Network, business and application logic mapping.	Automated asset crawling and asset scanning configuration tweaking.	Manual vulnerability testing and exploitation. False positive validation.	Web based vulnerability management platform with on-demand reports.	Guidance during resolution.	Dedicated web- based vulnerability management platform.	Validation of remediation effectiveness



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