

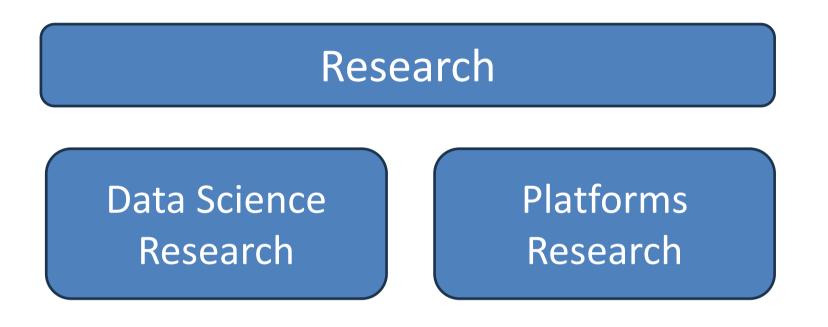
UK National Cyber Security Centre on GenAl Concerns / Opportunities / Directions

ITU Workshop 19th February 2024

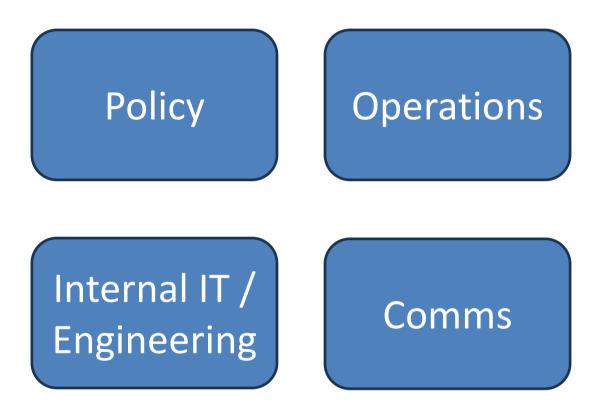




Whoami and where does GenAl sit at NCSC











Prompt: "uk civil servants looking concerned"

Our Concerns





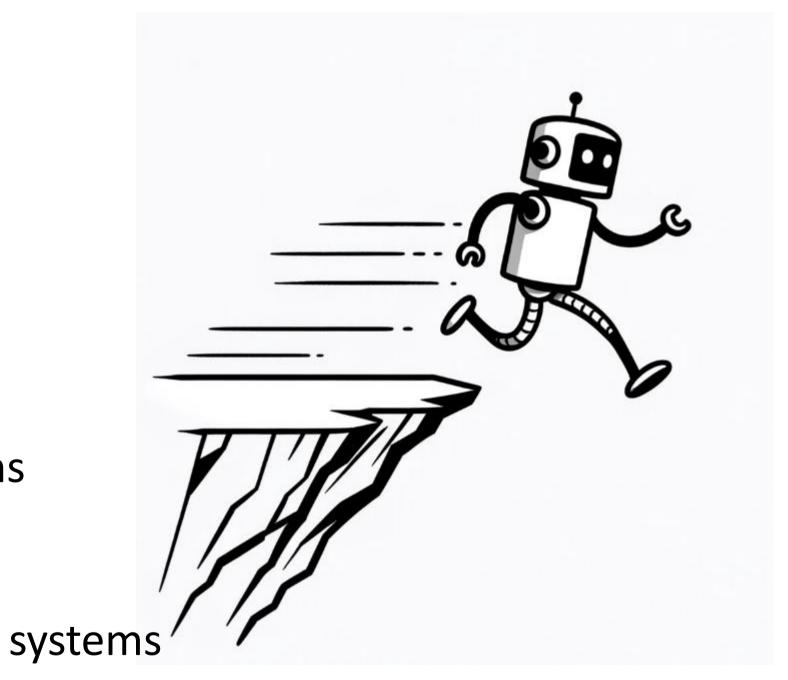


Our concerns

Rushing and creating risk

- Haste overcoming need for secure by design
- Inadvertently creating dangerous or harmful systems
- Not protecting data when building a system
- Not protecting the system from AI-specific attacks
- Not putting in the controls we'd expect of "normal" systems







How do we safely go from cruise control to self-driving?

- Currently people don't trust GenAl to do much
- The potential for what it could do is huge
- How do we learn to evaluate GenAI for specific tasks





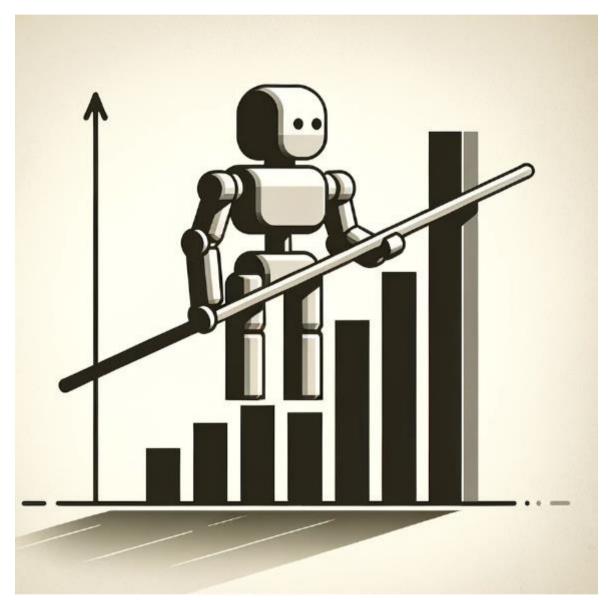


Our concerns

Lowering the bar for attackers

- Coaching attackers
- Translation (including domain translation)
- Capabilities that might have not previously been within their ability







Our concerns

Use of GenAl's strengths for harm

- Harmful content
- Data analysis









Prompt: "many uk civil servants looking hopeful"



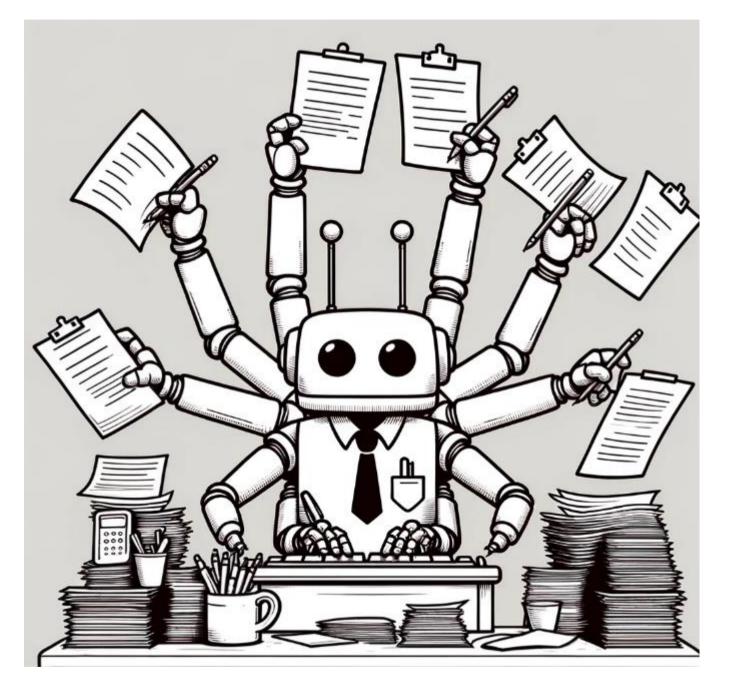


Attackers are using GenAI, defenders need to be able to





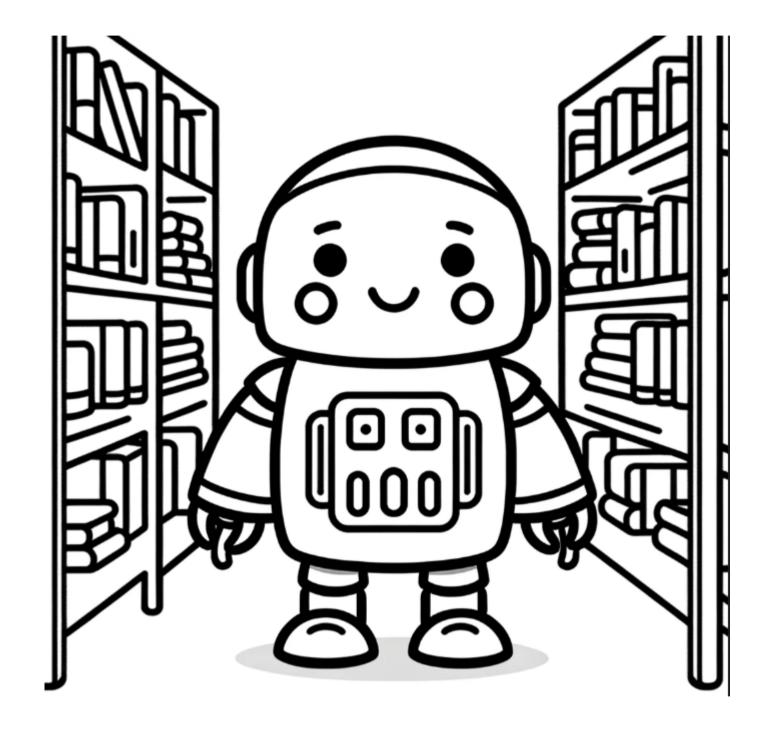
Automating tasks that currently take defender time







Able to look at the data defenders don't have time for



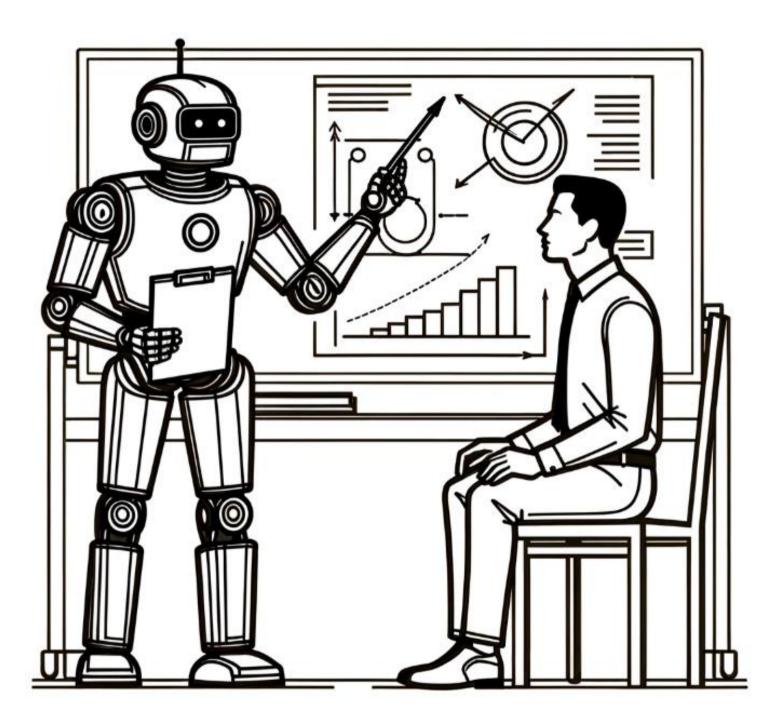




As "always available" coaches

- For defenders, coders etc
- For everyone to have access when required to guidance – help security make sense for them







What are NCSC doing?



- internally
- in academia
- in industry

Publications such as the Guidelines for secure development of Al systems

Working with the AISI

Co-Published with 23 international governmental cyber security organisations

Working with ETSI SAI Group (est 2019)

Building our policy position

Using them ourselves



In Summary

- NCSC are concerned both with people making insecure systems as well as actors using systems in a way that increases their capability We feel there are huge advantages for defenders
- Whilst there are a lot of research questions still needing answering, international collaboration will be key

