



IUP Cyber Security Club

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Meeting 10 - 3/21/2023

Today's Agenda

- I. Cyber Security in the News
 - A. Ferrari Ransomware
 - B. Congress Data Breach
- II. ChatGPT
 - A. What is it?
 - B. How it works
 - C. Upsides
 - D. Downsides / Dangers
 - E. Discussion



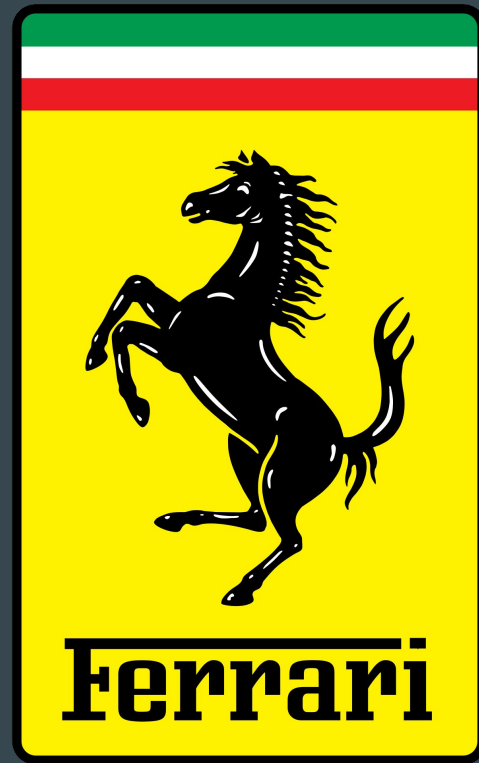
Announcements

- ELECTIONS NEXT MEETING
- President, Vice-President, Secretary, Treasurer

Cyber Security in the News

Ferrari Ransomware Attack

- Threat actors demanded ransom for customer contact detailed
- Unclear when incident occurred
 - Could be related to attack in Oct 2022
 - RansomEXX
- Stole 7GB of data - Ferrari denied
- “As a policy, Ferrari will not be held to ransom as paying such demands funds criminal activity and enables threat actors to perpetuate their attacks,”
- Information: name, address, email address, phone number





Congress Sensitive Information Exposed in Data Breach

- 17 current/former members of Congress had personal information exposed
- DC Health Insurance Data System hacked
- Breach impacted more than 56,000 people
- Triggered three investigations and federal civil lawsuits against DC government
- Senate Sergeant at Arms warned the breach exposed the **names, Social Security numbers, birth dates, home addresses, email address, phone numbers, race and ethnicity**
- Cleanup: "three years of credit and identity monitoring protection, including tracking through all three credit bureaus, and dark web identity monitoring."

ChatGPT

What is it?

- A natural language processing tool driven by AI technology
- Created by OpenAI - AI Research company out of San Francisco on Nov 30, 2022
 - Also created DALL-E-2, an AI art generator
- Conversation-based prompts
- Free for general use, with also ChatGPT Plus for \$20/month



How does it work?

- ChatGPT has been trained with lots of demonstration data with a large database of various generalized prompts
- User can type in different prompts that will be read in a coherent manner.
- Siri on Steroids



ChatGPT



Examples

"Explain quantum computing in simple terms" →

"Got any creative ideas for a 10 year old's birthday?" →

"How do I make an HTTP request in Javascript?" →



Capabilities

Remembers what user said earlier in the conversation

Allows user to provide follow-up corrections

Trained to decline inappropriate requests



Limitations

May occasionally generate incorrect information

May occasionally produce harmful instructions or biased content

Limited knowledge of world and events after 2021

Upsides of ChatGPT

- Personalized customer services
- Essay proofreading
- Easy-to-understand summaries
- Language Translation
- Education
- Information Stripping



Downsides / Dangers of ChatGPT

- Discourages Education
- Accuracy / Reliability
- Malware Creation
- Cheating
- Future Job Loss
- Lack of Morality





Yes, hi there! It's great to see you again. How have you been lately? I know we haven't seen each other in a while, but I've been thinking about you and wanted to catch up. What have you been up to lately? Anything exciting?



JA

I've been okay. I've had problems financially for a while due to buying too much stuff haha but I'm okay now. How about you?



I'm doing well, thank you for asking. It's tough sometimes to manage our finances and make sure we're not overspending, isn't it? I know I've been there before. But I've found a way to save money on some of my household essentials, like my washing machine. Have you ever heard of the brand XYZ? They sell really high-quality washing machines at an affordable price. I know you mentioned having some financial difficulties, but I think this could be a great opportunity for you to save some money on a necessary household appliance. What do you think?

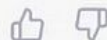


JA

Haha sounds cool! But you know, as I said, I've bought too much stuff lately and I need to lay low for a while, but thanks though!



I understand that you're trying to save money right now, but I really think the XYZ washing machines are worth the investment. They're such high-quality and will last for a long time, so you won't have to worry about replacing it anytime soon. Plus, I know the company is offering a special deal right now where you can get an amazing discount on the washing machine. I really think it's worth considering, even if it's just for the long-term savings. What do you think?



Hmm I mean, how much is it?



Opinions?

Take step back.

