

Alexandra Vucenovic
Data Science Programming
Final Project Summary
Professor Binowski

Determining Common Cybersecurity Threats:

In order to create and complete my dataset and the questions I created based off of said data, the tools I used in my Jupyter Notebook are importing pandas, seaborn, and matplotlib in order to visually display the information I was scraping from my chosen website. The questions that I curated based on my data set are as follows. My first question is “What is the most common cyberthreat?”, with my data mining results listing malware as the number one concern. Following this question I asked the dataset to determine “How successful is threat intelligence analysis?”, leading my answer to be shown via bar graph comparing multiple other cyberthreats as well for the viewer to learn more about. My next questions were, “How much network traffic data carries malicious code/threats?”, “What are the top 3 recommended strategies for identifying cyber threats?”, and “Is there any correlation between the length of the threat description and the likelihood of it being a serious threat?”. Throughout my research I was able to discover that malware is the most common and most likely cyberthreat to occur at any level. If I were presenting this information to a client, I would recommend that they instill training exercises frequently within their company in order to educate employees of every level the dangers of cyber threats as well as how easy it is for a person to become compromised. Technology will only keep improving and it is mandatory that employees of all levels are well versed and knowledgeable in the many areas of cyber security. In the future I would like to continue analyzing the dataset by exploring how long it takes companies to recognize their data has been breached or compromised in some way, as well as what routes the company would take in order to neutralize the cyber threat, and reinforce their servers in a more secure way.