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CYSE201S

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## **Article 2**

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### Article:

<https://academic.oup.com/cybersecurity/article/9/1/tyac015/6972135?searchresult=1>

For my article two review I have went with the article that is mentioned above. The above article covers a relevant topic that most people who uses social media have encountered one way or another. That topic being about social bots, more in depth talking about the two main types of social bots and how the process of classifying them proceeds. Using semi-supervised machine learning to provide efficient identifying and classifying measures.

The article begins with setting a structure for the research that is going to be explored. Covering the bases of what defines the two main categories of social bots. The two types being benign bots and then the more detrimental malicious bots. What makes a social bot is key attributes such as automated tasks (posting tweet on the social media site Twitter) and contributing to network traffic. However, the attributes that describe a benign bot is that they perform benign activities such as posting updates to social media. Where malicious bots will engage in harmful actions like posting fake news and aiding in the spread of spam. Another main difference is that a benign bot is commonly controlled by a single user whereas a malicious bot is often controlled by a bot master that can then form a botnet if desired.

After the grounds are set the article then proceeds to talk about the intelligence that is being used and how the machine learning is taking place. Using datasets from the social media site Twitter the machine intelligence is able to sort through resources and accounts on the social media site to classify the different social bots that are present. The article also provided a summary of other approaches that are being taken to aid in this research. The summary showing the dataset type used along with the performance that each method had. Being able to grow the

research and help the efficiency of correctly identifying these bots and performing a removal of those that pose harm on social media users.