INTRODUCTION

IoT (Internet of Things) devices such as voice-enabled speakers, mobile devices, or any device with internet capability can easily store your information.

Third parties can easily access such information through websites, storing and sharing your information around the web.

Some of that information can contain personal identifiable information (PII). This is a big No-No!

Our goal is to prove that such information can and is being collected to spread awareness and possibly find a solution in the near future.

What we are researching in this project is a comparison between the data tracked between Mycroft and Alexa.

Skills Developed and Purpose

In order to accomplish proving that your information is widely open for dibs, we must acquire these skills:

- How to operate RaspberryPi, a computer that uses a different operating system.
- How to install Mycroft which is a voice assistant just like Alexa from Amazon, Siri from Apple, Cortana from Windows, etc.
- Run scripts (coding) to determine which domains(networks) carry trackers.

Building Mycroft (Pi Experience)

- Installed basic skills that Mycroft can perform (Saying “Hello,” Singing, Counting, etc.).
- Installed unofficial skills created by the Mycroft community, such as Navigation and YouTube search.

Rpi Data

- Through Alexa, the results showed that at least twenty percent of the network traffic contained trackers.
- This means that after every command, there is a twenty percent chance that Alexa is storing your data.

Mycroft Data

- Through Mycroft, we were able to run a script that scanned the network traffic and ran it against several ad blockers.
- As a result, we found that the data reported zero trackers, meaning that it did not risk users privacy released through the web.
- This means that the Mycroft device we are using does not share any information and is a dependable device to compare with Alexa.

ACKNOWLEDGEMENTS

“We would like to acknowledge the ProperData Staff: Ernest, Marilyne, Rahmadi, Umar, and Athina, for making this an intuitive and educational project experience.

We would also like to thank the special guests who were invited for sharing their knowledge and experience.”