

Saddleback College, Santa Ana College, University of California, Irvine

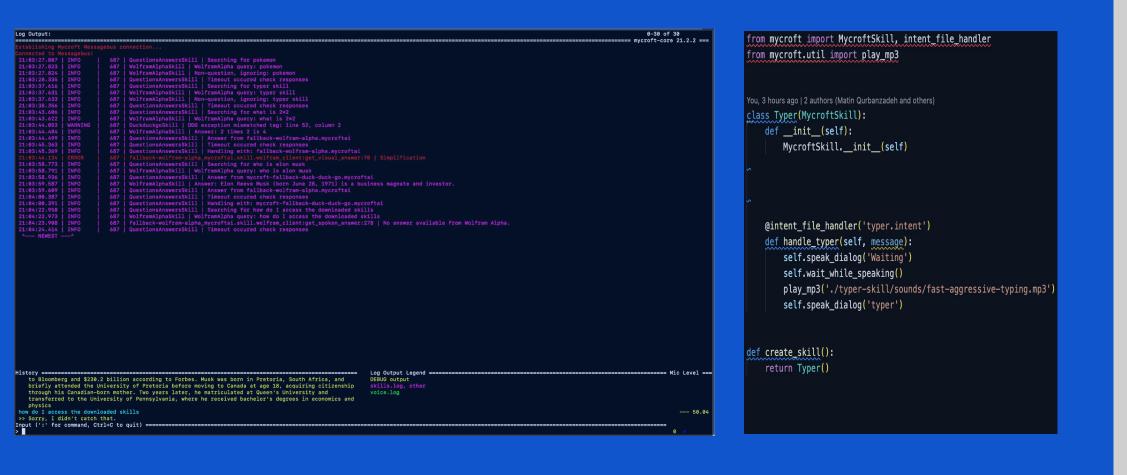
INTRODUCTION

In an era where our lives are increasingly intertwined with technology, the importance of understanding the impact of Internet of Things (IoT) devices and preserving our privacy cannot be overstated. With this objective in mind, our dedicated workshop delved into the intricate world of IoT and privacy, empowering participants with the knowledge and tools to comprehend the data collection practices of popular applications like Tik Tok and web browsing experiences.

As part of this workshop, we exposed companies' fingerprinting techniques and tracking mechanisms through wireshark. We explored web ads, social media targeting, and TikTok's algorithm. Comparative evaluations of Adblock Plus and the Brave browser determined their effectiveness in preserving user privacy.

Skill Engineering

- Our skill uses the mycroft library, specifically the mycroft.util and MycroftSkill sublibraries.
- Python programming: Our skill utilizes the python programming language
- Future Development: Given more time we would have expanded our skill to include a task manager



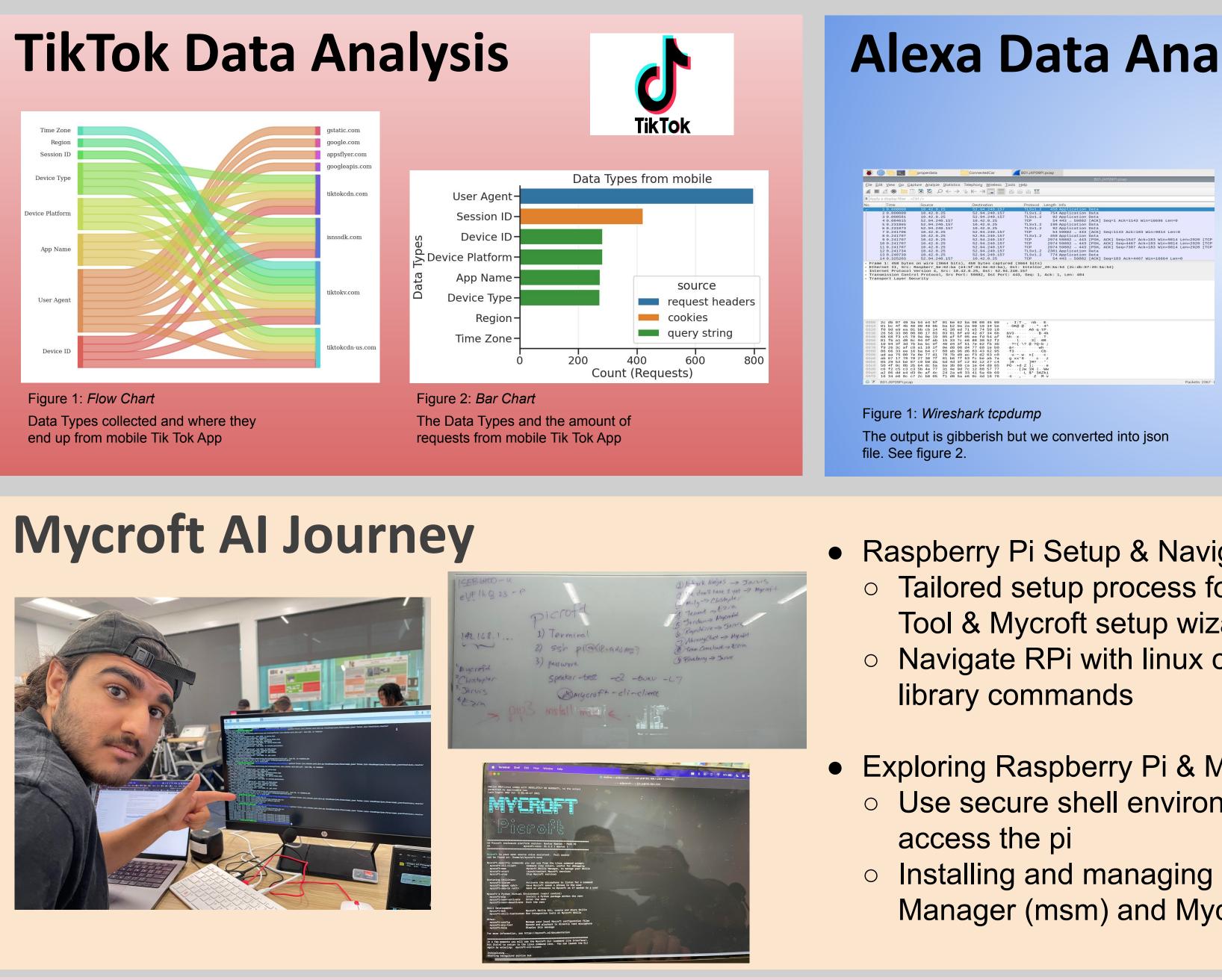


UCI Donald Bren

2022 Privacy and IoT Research Exploration

Network Ninjas

Matin Qurbanzadeh, Atanacia "Tany" Sanchez

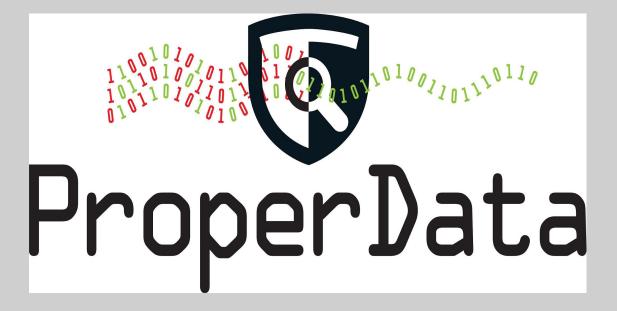


ACKNOWLEDGEMENTS

We would like to express a deep appreciation and gratitude to the 2023 ProperData team and participants. Particularly: Ernest, Marilyn, Athina, Alison, Hieu, Rahmandi, and Athina. Shout out to our professors who have laid the foundation needed to become successful computer science engineers of the future. Last but not least a big thank you to our families and supporters for their love and encouragement.

School of Information & Computer Sciences





Alexa Data Analytics

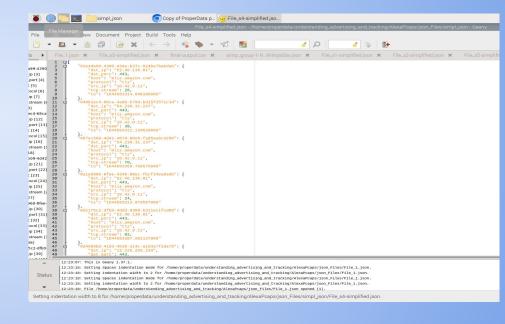


Figure 2: JSON File A cleaner visual output from Wireshark tcpdump data collection

Raspberry Pi Setup & Navigation:

- Tailored setup process following RPi Configuration
 - Tool & Mycroft setup wizard
- Navigate RPi with linux commands and mycroft ai

• Exploring Raspberry Pi & Mycroft Al Library:

- Use secure shell environment and local IP address to
- Installing and managing skills using Mycroft Skills
 - Manager (msm) and Mycroft-cli-client



