

JordanCROFT

Angelica Jordan





Meet the Team



Angelica Jordan

< It is just me >

I go to Saddleback
College





amazon



Something crazy...



{ Alexa collects 37 out of 48 possible data points

- The data includes user's name, phone number, device location, IP address, names and numbers of contacts, interaction history, the apps they use, and purchase history

< this makes it the **most** data-collecting voice assistant >

Retrieved from [PCMAG](#), 6/29/2023

It's always listening



- Two attempts were made to obtain the data from the Echo, but Amazon refused both times.
- “Amazon won’t want to release it because they want to sell more of them”

Retrieved from [CNN](#), 6/29/2023





BUILDING MYCROFT



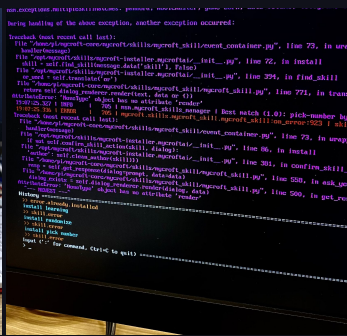
Raspberry Pi Environment

Raspberry Pi 400, speaker, mouse and monitor



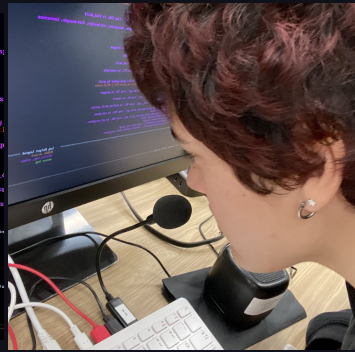
Installing Mycroft Skills

Utilized skills available on the Mycroft website, developed custom skills/features



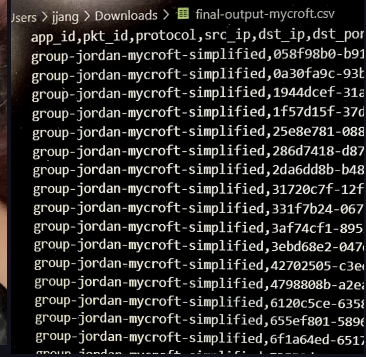
Asking Questions

Tested and engaged with Mycroft by asking various questions and commands



Collect Tracking Data

Using tshark to collect tracking data output as a aggregated.csv file





Challenges

Errors while
downloading skills



```
AttributeError: 'NoneType'
19:07:53.606 | INFO |
19:07:54.378 | INFO |
^--- NEWEST ---^
History =====
install learning
>> skill.error
install randomize
>> skill.error
install pick number
>> skill.error
laugh
Input (':') for command. Ctrl+
```

Navigating the client and
troubleshooting issues

The programs included with the Debian GNU/Linux system are free soft-
ware; the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/*copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.

MYCROFT

Picroft

```
*****
** Picroft enclosure platform version: Buster Keaton - Pork Pi
** mycroft-core: 21.2.2 ( master )
*****
```

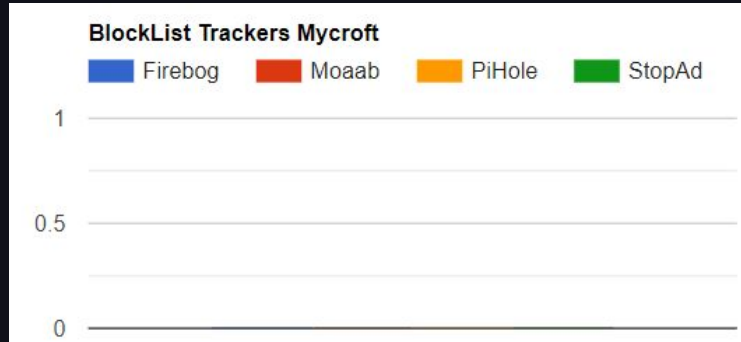


WHY MYCROFT?

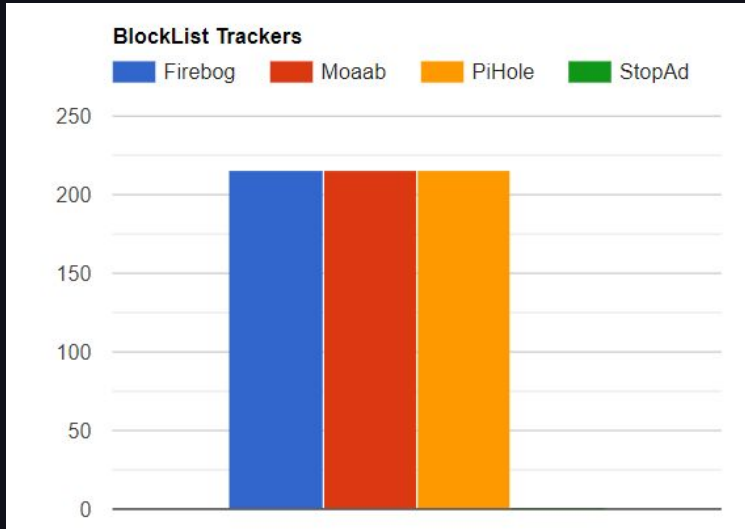




MYCROFT VS ALEXA



Zero trackers found



216 trackers found





KEY FEATURES



Easy Wake-Word

To activate the smart speaker, simply use the phrase "Hey Mycroft."

Responds to vocal commands

Like other voice assistants, Mycroft responds to relevant words and phrases, for example: "What is the weather?"



JUST LIKE ANY OTHER SMART SPEAKER, JUST SAFER!





CONCLUSION



Mycroft

- Being open-source, Mycroft code is publicly available for scrutiny, providing transparency into its data handling practices.

ENSURES PRIVACY!

Alexa

- When using Alexa, the user is heavily tracked. This poses a huge privacy risk.

DATA COMPROMISED!



you'll never be sure what data they have on you, even if someone dies in your hot tub

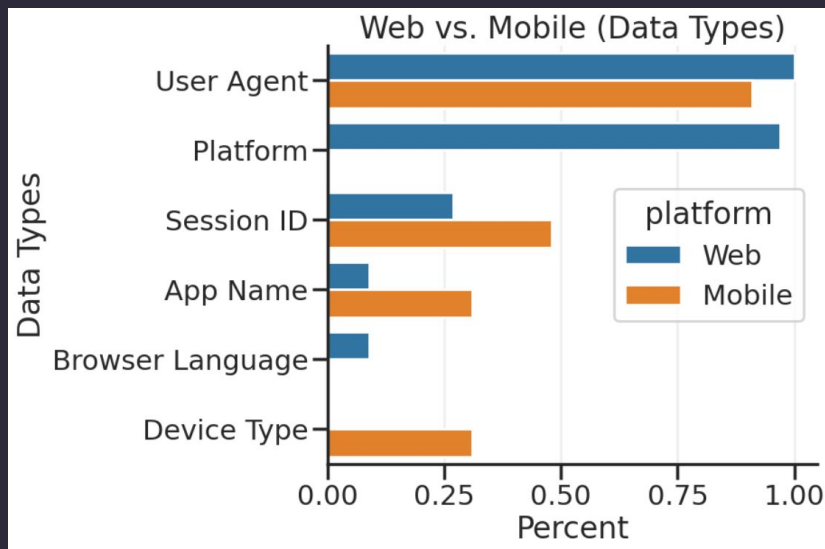
{ TIKTOK DATA

Personalization and
Data privacy



TRACKING AND FINGERPRINTING

Like Alexa, TikTok collects data about your device, location, IP address, usage patterns, and more.



TikTok mobile and web network traffic, requesting/collecting different data types



TikTok owner agrees to \$92 million privacy settlement with U.S. users

A lawsuit was filed against TikTok, Inc. due to violating federal/state laws while they “collected and used” personal data “without sufficient notice and consent.”





SO WHY IS PRIVACY IMPORTANT?



- **Personal data** can be exploited for targeted advertising/manipulative purposes.
- **Inadequate protection** can result in **financial loss or identity theft**.
- **Data privacy** is a right, and its violation could lead to a loss of individual autonomy, dignity, and freedom.
- **Ensuring data privacy** helps build trust in digital ecosystems, fosters technological innovation, and promotes the growth of a fair and equitable society.





AWARENESS OF MY PRIVACY

BEFORE PROPERDATA

- **Limited awareness** about the extent of my personal data being collected by platforms and services.
- **Didn't grasp the potential risks** and implications of data collection and usage.
- **Naively trusted organizations** and platforms without questioning their data handling practices.

AFTER PROPERDATA

- **Awareness of the potential risks** associated with data breaches increased significantly.
- **Started questioning** and critically analyzing data collection practices of organizations and services.
- **I will** actively take steps to protect my personal data and adjust privacy settings accordingly.



HOW CAN YOU PROTECT YOURSELF?



- Despite what you may think, your data is not entirely protected while using Incognito mode.
- Ad Blockers can help safeguard users, but still have limitations.
- Secure browsers, such as Brave Browser, and search engines such as Duckduckgo, will ensure the safety of both you and your data.





OVERALL EXPERIENCE

01 Raspberry Pi

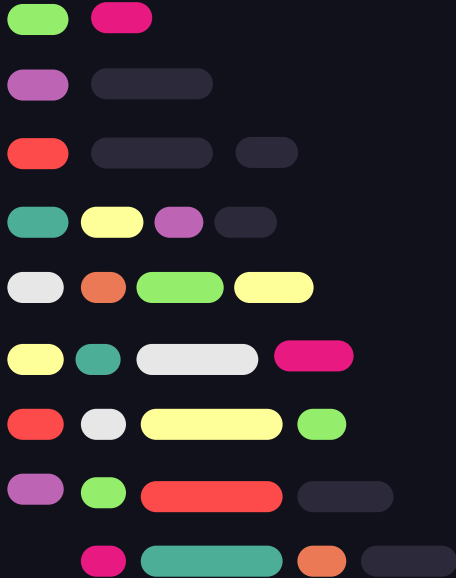
New experience working with Raspberry Pi, Python code, and more.

02 Great learning opportunity

Engaging exchanges involving graduate students and their research and advice.

03 Made new friends

I had the opportunity to meet so many smart and amazing people!





Thank You!

< Keep in touch >

TEAM JORDAN

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[Linked-in](#) →

