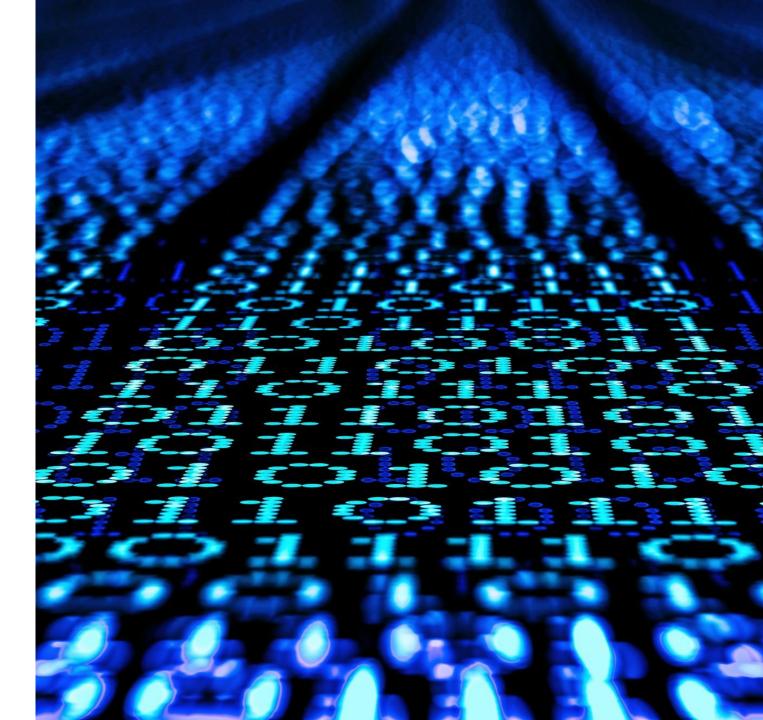
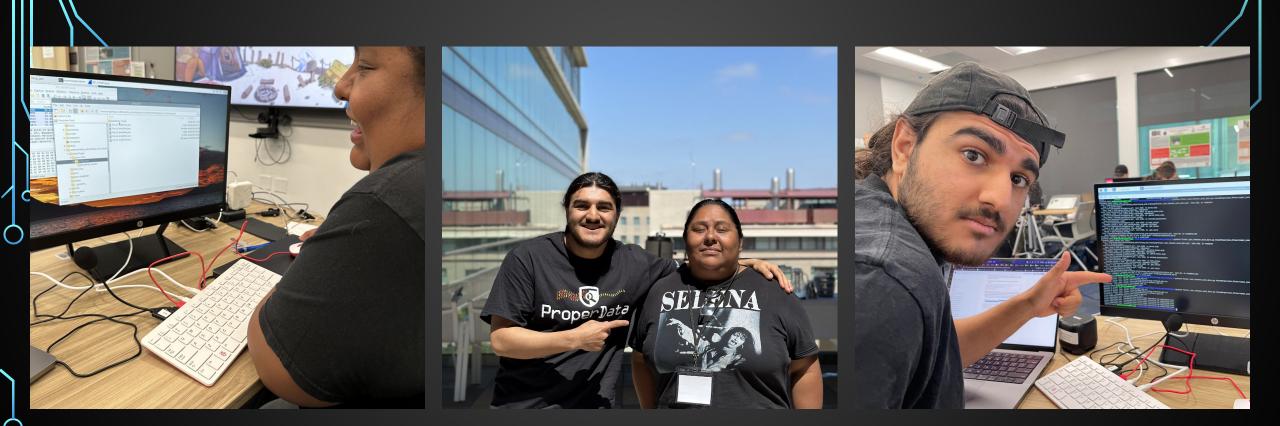
IOT AND PRIVACY WORKSHOP

Tany Sanchez and Matin Qurbanzadeh

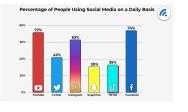




% MEET THE NETWORK NINJAS

Social Media Users?

SISBI44F 68 A6L



4,900,000,000

Demandsage

WEB TRACKING

- Cookies: Websites often utilize cookies, small text files stored on users' devices, to track their interactions. These cookies can store information such as browsing history, preferences, and login credentials.
- Fingerprinting: Web tracking can also involve browser fingerprinting, which creates a unique identifier based on various parameters such as browser version, installed plugins, screen resolution, and system fonts. This technique helps distinguish and track users even without the use of cookies.
- Third-Party Tracking: Many websites integrate third-party services, such as advertising networks or analytics
 providers, that can track user behavior across multiple sites. These third-party trackers can gather data about users'
 browsing habits, interests, and demographics.
- Cross-Site Tracking: Cross-site tracking occurs when trackers follow users across different websites, enabling them to build comprehensive profiles of users' online behavior. This data is often used for targeted advertising and personalization.
- Data Aggregation and Profiling: The collected data is aggregated, analyzed, and profiled to create detailed user profiles. These profiles are then used for targeted advertising, content customization, or sold to third parties.

WEB TRACKING ON TIKTOK

• User Data during use:

• Videos : Time spent Engagement level Platform interaction

• Device Information:

• Device type

• Operating system

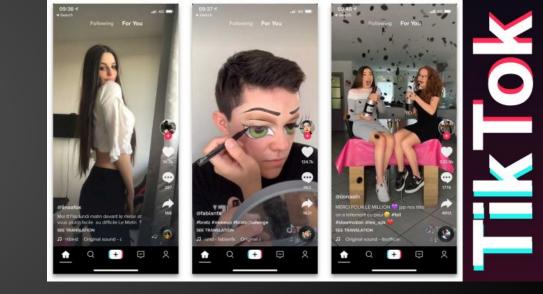
• GPS / WIFI Access

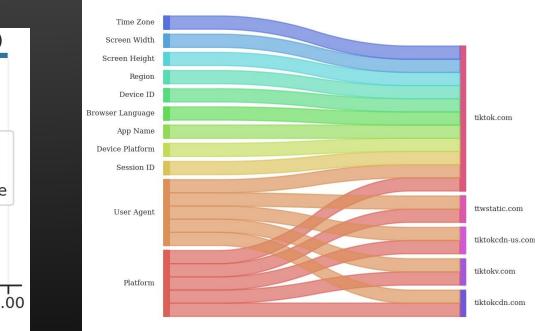
Location Information

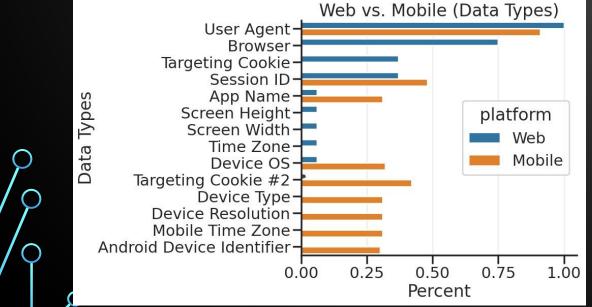
• Outside information about you from 3rd party groups

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- Learn what Tik Tok is collecting by inspecting the network traffic.
- Used Tik Tok on the web and collect a HAR file. Used that file to perform data analysis see the datatypes and where the requests are being sent.







COMBAT TRACKING

Install AdBlockers

- AdBlock Plus
- uBlock Origin



- Use private and secure web browser.
 - Brave Browser
 - Opera Browser



- What do they do? They stop advertising and tracking
 - By blocking HTTP request headers
 - Hide HTML ad elements
 - Block JS



IOT DEVICES AND PRIVACY

 IoT devices has made data privacy challenging

• Connected devices collect vast amounts of personal data.

• Alexa / Google home / Ring

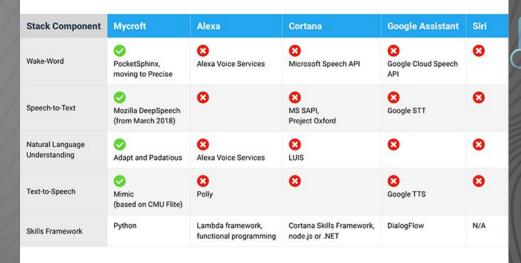
MYCROFT AI

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• World's leading open-source voice assistant

- Active focus on privacy
 - End-to-end encryption
 - NO data storage
 - Regular security updates

What in Voice Tech is Open Source?



economiacircular.cuc.edu.co

SKILL DEVELOPMENT

- Our skill hacks a server
 - Responds with a message
 - Followed by a sound
 - Ending with final message of completion

.og Output:	12-31 of 31
<pre>requests.packages.urllib3.connectionpool</pre>	<pre></pre>
listory ====================================	Log Output Legend ====================================
>> 04:56	mycroft-skills.log, other
	mycroft-speech-client.log
What's the weather? >> It's currently clear sky and -17 degrees	afferore speech cerentredg

• We activate our skill through the mycroft-cli-client

OVERALL EXPERIENCE

• Developed skills

- Raspberry Pi
- Monitoring Network Traffic (Wireshark)
- Navigating Linux with terminal commands
- Teamwork and cooperation
- Troubleshooting and debugging

THANK YOU

Connect with us!

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Q

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Tany-Sanchez



matin-qurbanzadeh

