#### Go through README for more insights

The video just has the cyber security assessment tool, as covering all the tools would have required a significant amount of time and the assessment tool is the main research tool, with the restrictions on time I just put that there.

I tried to incorporate screenshots of the tools working and its outputs here.

## In security-assessment directory

initial\_prompt.txt - set up of the LLM

securityTool.js - security questionnaire file (Please note right now the responses are very slow if you are using the tool please wait for further questions and report.)

Really wanted to show more about this so a separate video on the assessment tool is in assessementTool\_video file, so you can see some interactions. To do interactions yourself, you might need an OpenAi api key.

```
sentionnaire is designed to assist you in identifying areas you might want to focus on for improved cybersecurity.
You: All of them
AI: Question 6:

cisingle_choice!-
Excellent Additionally, knowing about data hosting can also help us in generating a detailed report. Where is your application data primarily hosted?

cli-On-Premises senerars/li>
cli-On-Premises Senerars/lia Senerars/lical Senerars/
```

# Sample interaction All the fields of You are put by me in response. Watch the video for a detailed use.

Lots of files in datasets for fine tuning.

Compilation of all csv files-/datasets/csv\_files/combined\_datasets

prompt.

In all Albab Cand amy shoot density for Software as a Stretce (Badil). These a single cloud provider and cross region registration. My primary purpose for using cloud enriches in high data of the control of

## In the toolkit directory

**/dependencyChecker/checkRequirements -** Scan all the requirements of a python project in requirements.txt. Check if they are detected as vulnerable in the Github Advisory database. Displays JSON. The risks are also filtered by high to low manually.

/dependencyCheck/checkNode - Scan all node project dependencies for vulnerabilities .Outputs json in vulnerabilities.json

#### vulnerabilities.json

```
(base) avijeetprasad@Avijeets-MacBook-Pro dependecyChecker % node checkNode.js
Checking vulnerabilities for dns
Checking vulnerabilities for node-fetch
Checking vulnerabilities for parse-domain
Checking vulnerabilities for zaproxy
Vulnerability report saved to vulnerabilities.json
```

executing checkNode.js

## **Executing checkRequirements.js**

/zapScans/zapScanActive.js - Active scan library /zapScans/zapScanPassive.js - Passive scan library

```
"reference": "https://cheatsheetseries.owasp.org/cheatsheets/SQL_Injection_Prevention_Cheat_Sheet.html",

"solution": "Do not trust client side input, even if there is client side validation in place.\nIn general, type check a

"alert": "SQL Injection - SQLite",

"param": "v",

"attack": "case randomblob(10000000) when not null then 1 else 1 end ",

"name": "SQL Injection - SQLite",

"risk": "High",

"id": "6163",
```

Example of a ZAP scan result to detect injection flaws on applyable.co.au

```
    (base) avijeetprasad@Avijeets-MacBook-Pro zapScans % node zapScanPassive.js
    Spider scan started with ID: 0
    Spider scan progress: 100%
    Scan results retrieved.
    HTML report retrieved.
```

Zap scan on work

/subDomainChecker/subDomainByBruteForce - execute a brute force subdomain check on the link.

/subDomainChecker/subdomains.txt - list of common subdomains to do brute force.

```
| (base) avijeetprasad@Avijeets-MacBook-Pro subDomainChecker % node subDomainByBruteForce.js
| Starting subdomain: email.irobot.com -> 13.111.67.8 |
| Found subdomain: email.irobot.com -> 13.111.67.8 |
| Found subdomain: blog.irobot.com -> 141.193.213.20, 141.193.213.21 |
| Found subdomain: demo.irobot.com -> 13.110.148.81 |
| Found subdomain: smtp.irobot.com -> 192.58.132.235 |
| Found subdomain: m.irobot.com -> 23.214.88.35, 23.214.88.25 |
| Found subdomain: m.irobot.com -> 23.214.88.35, 23.214.88.25 |
| Found subdomain: forum.irobot.com -> 208.74.204.81 |
| Found subdomain: forum.irobot.com -> 208.74.204.81 |
| Found subdomain: media.irobot.com -> 208.74.204.81 |
| Found subdomain: media.irobot.com -> 104.17.30.170, 104.17.27.170, 104.17.28.170, 104.17.29.170, 104.17.31.170 |
| Found subdomain: www.irobot.com -> 104.18.125.237, 104.18.126.237 |
| Found subdomain: www.irobot.com -> 104.18.126.237, 104.18.125.237 |
| Found subdomain: webmail.irobot.com -> 192.58.132.196 |
| Found subdomain: vpn.irobot.com -> 192.58.132.196 |
| Found subdomain: remote.irobot.com -> 192.58.132.196 |
| Found subdomain: staging.irobot.com -> 13.82.175.96 |
| Found subdomain: staging.irobot.com -> 20.49.104.20 |
| Found subdomain: dev.irobot.com -> 13.82.175.96 |
| Found subdomain: dev.irobot.com -> 52.37.94.58 |
| Found subdomain: mir.irobot.com -> 52.37.94.58 |
```

Example subdomains of irobot.com by the script

/passwordChecker/passwordCheckerZap.js - Gets CSRF thorough HTML of a website. Attack on registration forms with usernames and passwords stored in usernames.txt and passwords.txt.