PolGuard

BITS & PIECES

GOA POLICE HACKATHON'22

PROBLEM STATEMENT

Issues with current malware detection softwares

#1 INCREASING RISK FROM MALWARE

- ▶ Technology advances, so does malware
- Over 560,000 new malware affect systems every day
- 4 companies fall victim to ransomware attacks every minute

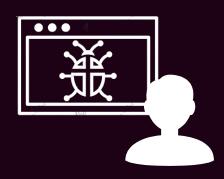
#2 DETECTION METHOD

Static signature based malware detection

VS

Machine learning based malware detection

#3 BROKEN LINK



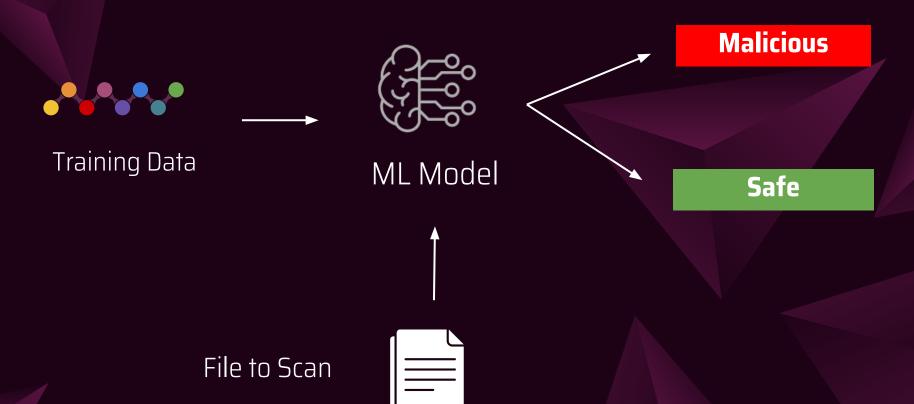




OUR SOLUTION

PolGuard's user and police side clients

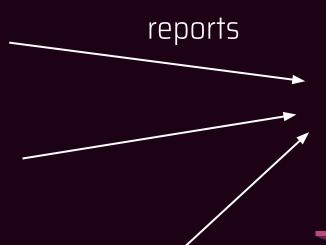
DETECTION METHOD



USERS SIDE









POLICE SIDE



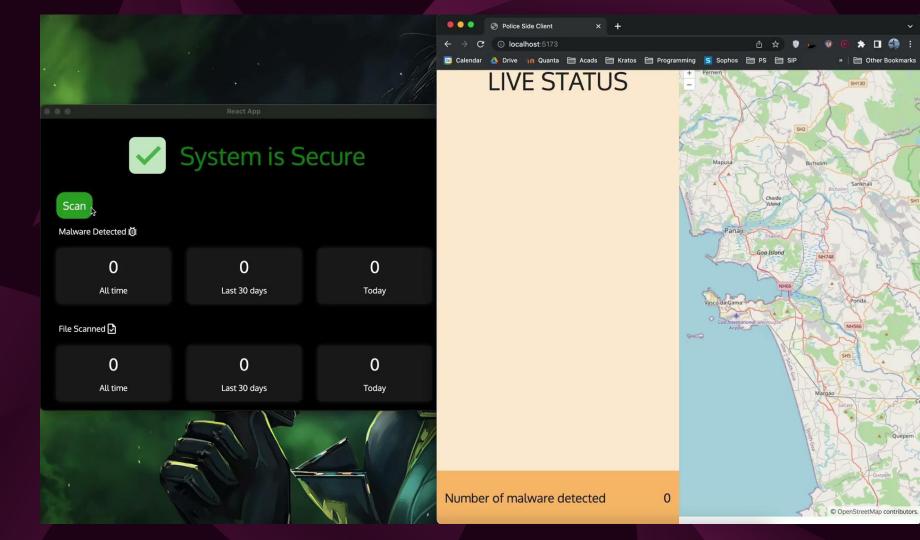
POLICE SIDE FEATURES

- ▶ Live status ip and coordinates
- Georeports
- Similarity index

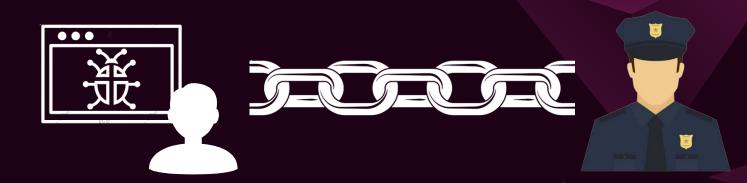
MITIGATE LARGE SCALE ATTACKS. ASSIST VULNERABLE USERS.



See our app in action!



NOW,



FUTURE WORK

- ▶ Get more accurate location data
- Improve accuracy by increasing size of dataset
- Extend compatibility to android/iOS devices
- Implement real-time scanning of files

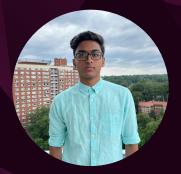
THANKS!



Praneeth B f20200096@goa.bits-pilani.ac.in



Akhil Bansal f202000116@goa.bits-pilani.ac.in



Bharath Hegde f202000143@goa.bits-pilani.ac.in