

Team Name: Gama (γ)

Category: Fraud Detection

Team Members:

- Gaurav Phuyal (Team Leader)
 - Manish Bagale (Team Member)
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Basic Idea:

Our project revolves around the idea of building a browser extension that empowers users to navigate the web with confidence by detecting and warning them about phishing sites, fake reviews, and other online threats.

Methodology:

1. **Seamless Integration:** The extension will seamlessly integrate into popular browsers, operating discreetly in the background.
 2. **Real-Time Analysis:** Upon visiting a website, the extension will instantly analyze its URL structure, domain age, SSL certificate, and other risk factors.
 3. **Comprehensive Threat Detection:** It will employ a multi-layered approach, combining techniques such as:
 - Blacklist checks against known phishing sites
 - Content analysis for suspicious language patterns
 - Machine learning algorithms to identify anomalies
 4. **User-Friendly Warnings:** If a potential threat is detected, the extension will display clear and informative warnings, guiding users to safety.
 5. **Customizable Settings:** Users will have the ability to adjust sensitivity levels and whitelist trusted sites.
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Tech Stack:

- Frontend: JavaScript, HTML, Bootstrap or Tailwind
 - Backend: Python, FastAPI
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Expected Outcome:

- **Reduced Online Vulnerabilities:** We aim to create a tool that significantly reduces users' exposure to phishing attacks, fake news, and malicious content.
- **Enhanced Online Safety:** By empowering users to make informed decisions, we hope to contribute to a safer and more trustworthy online experience.
- **Developing digital literacy skills :** Our extension bridges the digital divide by equipping everyday users with practical security tools. They'll gain the confidence and skills to navigate the web safely, becoming informed defenders against online threats.