

# PhishGuard

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# PhishGuard

## **What does it do?**

- Examines URLs and domain patterns
- Detects login forms and suspicious page content
- Computes a phishing risk score
- Displays clear, explainable warnings

## **Who is the target audience?**

- Everyday internet users
- Students and faculty
- Small businesses
- Non-technical users who want extra protection

# User's point of view

From the user's perspective:

- Install extension → browse normally
- Extension icon changes color (green / yellow / red)
- Warning banner appears on risky sites
- Click popup to see:
  - Risk score
  - Why the site was flagged
  - Recent scans
- Option to mark site as safe or suspicious

# Why this Project

- Phishing is one of the most common real-world cyberattacks
- The project combines:
  - Security
  - Web development
  - Data analysis
- I like building tools people could realistically use
- It's challenging because:
  - Detection isn't trivial
  - Balancing false positives vs real threats
  - Designing clear UX for security warnings

# Technologies

## Software

- JavaScript / TypeScript
- Chrome Extension APIs (Manifest V3)
- HTML + CSS for UI
- Python (for dataset evaluation scripts)
- Public phishing datasets

### **Do I already know these?**

- Experience with web development & JS
- Familiar with security concepts
- Will extend skills in:
  - Browser internals
  - Detection systems

# Questions