

ZeroDay AI - Ultimate Cybersecurity Lab

Team Name: The Debuggers

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GitHub Repository:

<https://github.com/RiyaThakur-dotcom/ZeroDay-AI-Cyber-Security-Intelligence-Dashboard>

Demo Video: Watch Demo Video

Project Description

ZeroDay AI is an interactive cybersecurity lab that allows users to think like a hacker and defend like a pro. The platform analyzes password strength, detects phishing messages, checks email breach risks, and provides live cyber threat mapping globally. It also features an AI-powered hacker voice assistant for interactive guidance.

Key Features

- Password Hacker Scan: Analyze password strength and suggest improvements.
- Phishing Detector: Detect suspicious messages and provide safety tips.
- Email Breach Check: Evaluate email breach risk and recommend protections.
- Live Cyber Threat Map: Visualize global cyber attacks in real-time using PyDeck.
- Voice Hacker AI: Ask questions and get voice-guided ethical hacking advice.

Tech Stack

- Frontend: Streamlit (Python)
- Backend / AI: Google Gemini API or Mock AI (for demos)
- Data Visualization: PyDeck, Pandas
- Voice Interaction: pyttsx3
- Auto-refresh / Real-time updates: streamlit_autorefresh

Highlights

- Mock AI mode for demo without API dependency
- Dark mode UI with live metrics (Firewall, AI Engine, Live Attacks)
- Interactive and gamified cybersecurity learning
- Lightweight, modular, and hackathon-ready

Instructions for Reviewers

- Check GitHub repo for full source code and README instructions.
- Click the demo video link to see live functionalities in action.
- Explore the AI voice assistant for practical cybersecurity tips.