Website Fraud Detection Tool

Goa Police Hackathon 2024

Team Name : Police Lover

Overview

This tool helps detect fraudulent websites by analyzing domain information, SSL certificates, suspicious keywords, and phone numbers linked to fraud databases. The project leverages **Natural Language Processing (NLP)** and **Machine Learning (ML)** to enhance fraud detection accuracy.

Key Features

- **Domain Verification**: Retrieves domain registrar details.
- **SSL Validation**: Checks SSL certificate validity dates.
- **NLP Analysis**: Scans websites for fraudulent keywords.
- **Phone Number Check**: Cross-checks numbers with the Goa Police fraud database.
- **AI Model**: Uses ML to adapt and improve detection accuracy.

Tech Stack

- **Backend**: Python, Flask, JavaScript
- **NLP/ML**: SpaCy, PyTorch
- **Web Scraping**: BeautifulSoup, requests

Usage

- Enter a website URL to analyze domain info, SSL status,perform NLP fraud detection and check the BlackList database.
- Result will display the score of that website or legitimacy score of that website(lower score indicates higher risk).

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