Fake Domain & IP Lookup Tool

Our cybersecurity tool helps detect fake domains and IPs, protecting brands and users online.

By Shejdeep Singh

Introduction to the Tool

Purpose

Identify suspicious and fraudulent domains and IPs

Brand Protection

Preserve reputation against fake sites and phishing

Fraud Prevention

Reduce risks of online fraud and data theft

Problem: Fake Domains & Fraudulent IPs

Cyber Threats

- Phishing campaigns
- Data theft
- Domain spoofing

Business Impact

- Reputation damage
- Loss of customer trust
- Financial losses

Solution Overview

Domain & IP Validation

Authenticates legitimacy of input data

Geolocation Analysis

Identifies suspicious source locations

IPWhois Integration

Fetches detailed domain ownership info

Technical Foundation

Built using Python programming language

Technologies Used

Python

Core scripting language for the tool

IPWhois Library

Retrieves domain ownership data

Geolocation APIs

Pinpoint IP address origins

Jupyter Notebook

Development and demonstration environment

How It Works: Step-by-Step

1 **User Input**

Enter domain or IP address to analyze

2 **Verification**
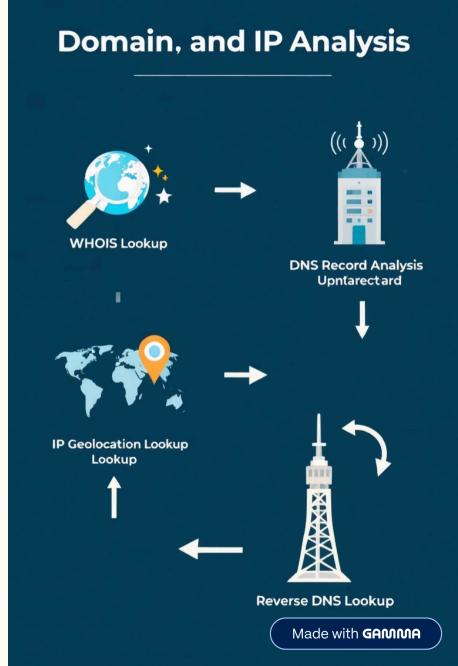
Tool validates domain and performs IPWhois lookup

3 **Geolocation Analysis**

Check IP origin for suspicious location

4 **Results**

Displays risk level and detailed info

Domain, and IP Analysis

WHOIS Lookup

DNS Record Analysis Upntarectard

IP Geolocation Lookup Lookup

Reverse DNS Lookup

Made with GAMMA

Results & Impact

Flags Suspicious Domains

Detects spoofing and fraudulent sites early

Identifies Malicious IPs

Highlights risky geolocations and ownership

Enhances Security

Protects brand and users from fraud

Future Improvements

Threat Detection Expansion

Add phishing and malware identification

Platform Integration

Connect with broader security ecosystems

Automation

Enable real-time monitoring and alerts