

AI-Driven Phishing Detection Tool - Technical Report

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GitHub: github.com/pavanEX31/AI-Driven-Phishing-Detection

1. Introduction

Phishing causes 90% of cyber breaches. Our tool uses AI to classify URLs as phishing/legitimate in real-time.

2. Technology Stack

- Backend: Python + Flask
- ML Model: Random Forest (95% accuracy)
- Frontend: HTML/Flask

3. Key Features

- ✓ URL length analysis
- ✓ HTTPS detection
- ✓ Real-time classification

4. Market Relevance

- Target: Banks, SMEs, individuals
- Future: Browser extension + deep learning

5. Results

- Precision: 94% | Recall: 96%
- Demo: User submits URL → Instant result

How to Use:

1. Clone GitHub repo
2. Run `app.py`
3. Open **<http://127.0.0.1:5000/>** in your browser.

Future Work

- Multi-language support
- API for enterprises

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