

# Market Analysis: AI-Powered Phishing Email Detection

## 1. Market Need

Phishing attacks continue to be one of the most successful forms of cybercrime. According to reports by Verizon and IBM, over 90% of cyberattacks begin with phishing emails. Organizations globally are investing heavily in phishing detection, email security gateways, and AI-based threat intelligence to protect their data and users.

## 2. Target Audience

The target audience for an AI-Powered Phishing Detector includes:

- Small to medium businesses lacking dedicated cybersecurity teams
- Educational institutions and universities
- Email service providers
- Enterprises looking to enhance employee email security
- Individual users and freelancers

## 3. Existing Solutions

Current tools in the market include Microsoft Defender for Office 365, Proofpoint, Mimecast, and Barracuda. These tools often integrate with enterprise mail servers and use a combination of heuristics, ML models, and blacklists. However, many of them are costly or not tailored for individual or academic users.

## 4. Competitive Advantage

This project offers:

- An open-source, lightweight alternative
- Easy-to-use CLI and GUI for broader accessibility
- TF-IDF + Random Forest for high interpretability and low compute needs

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- Extendable architecture for future deep learning enhancements

## 5. Market Growth Potential

The global email security market is projected to grow from \$4.48 billion in 2022 to over \$9 billion by 2030, driven by the rise in remote work and digital communication. AI-powered solutions are expected to dominate this growth due to their adaptability and scalability.

## 6. Conclusion

AI-Powered Phishing Detection is a timely and relevant cybersecurity solution. With its educational value, practical implementation, and adaptability, this tool has real-world market relevance in both enterprise and academic environments.