



# OSINT Reconnaissance:

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-presented by *ideathon losers*

Exposing your digital footprint before attackers do.

# Six Ways Attackers Find You Online



## Image Reversal

Tools like Cleanup.pictures and Yandex identify where your photos appear online, revealing location data and associations.



## Social Mapping

Google operators (site:instagram.com intext:username) expose all public posts, comments, and tagged content linking to your profile.



## Document Harvesting

Filetype searches ("name" filetype:pdf OR docx OR xlsx) surface resumes, court records, and official documents containing personal details.



## Facial Recognition

FaceCheck.id links your photo to thousands of indexed images, building visual profiles across the web.



## Breach Mapping

HaveIBeenPwned reveals if your email appears in past breaches, exposing linked accounts and credentials.

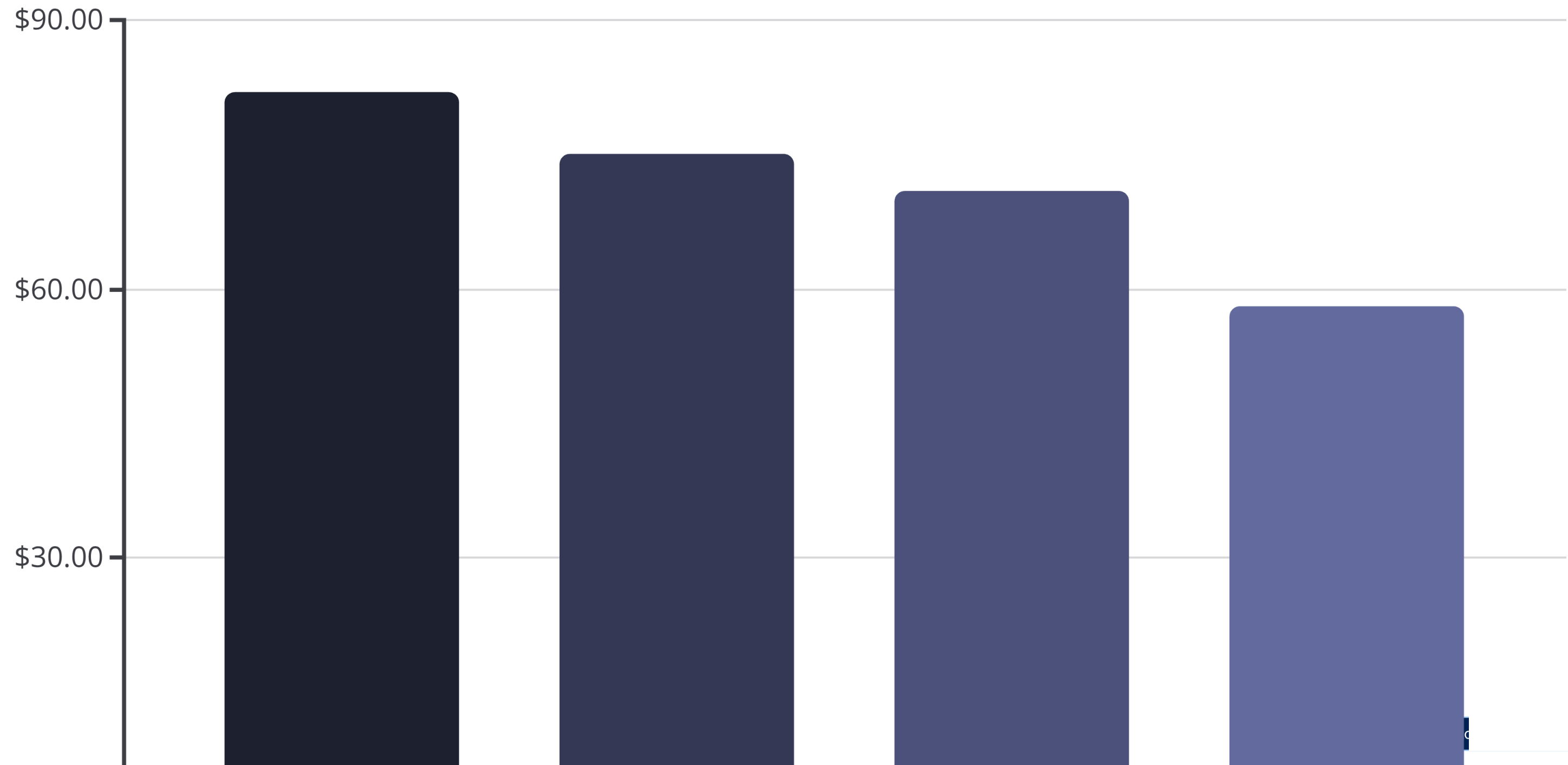


## Username Tracking

InstantUsername.com catalogs every website where your username exists, creating a complete account inventory.

# Why OSINT Reconnaissance Matters

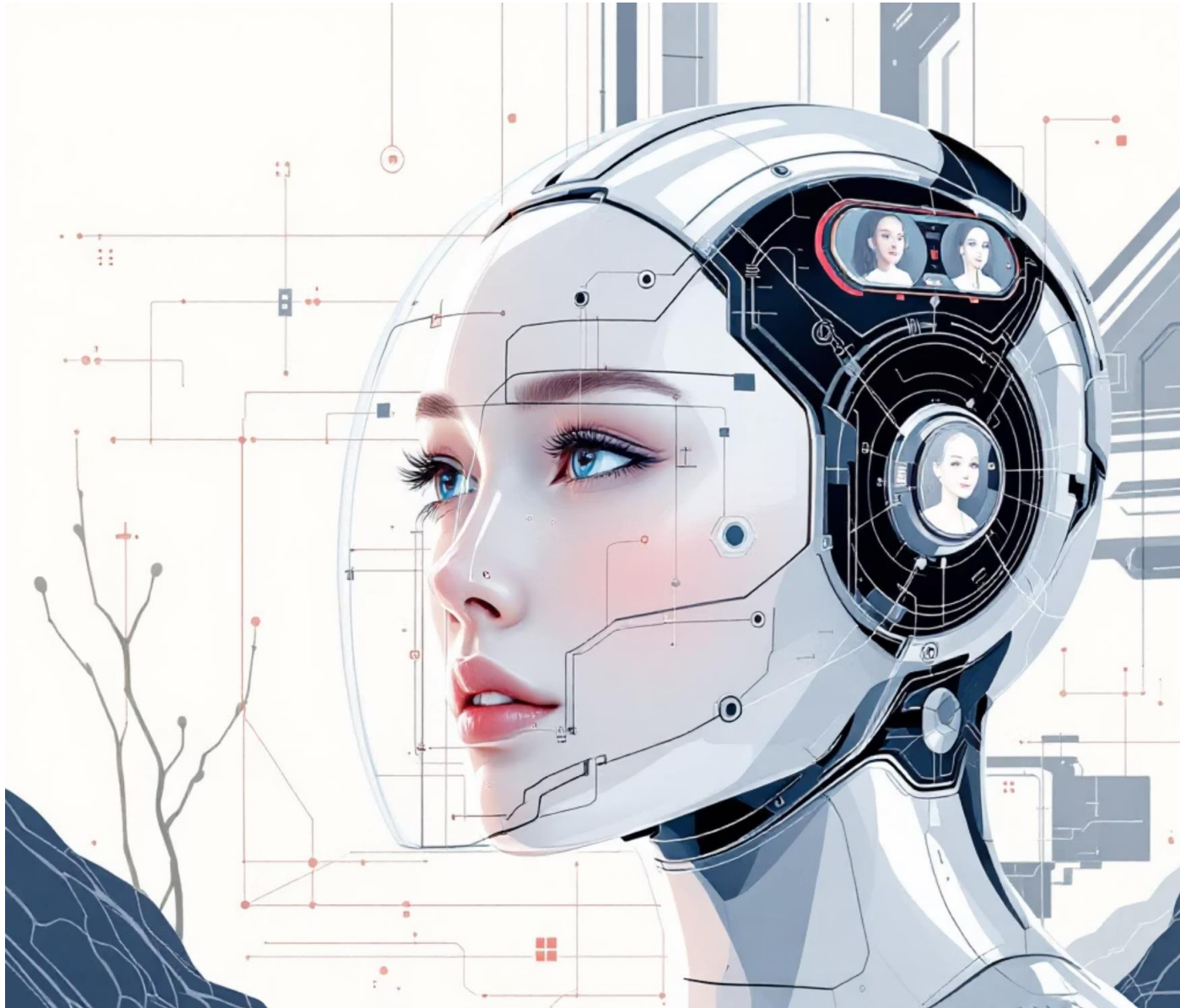
Attackers combine OSINT data with social engineering tactics to enable breaches, fraud, and targeted attacks. The threat is both widespread and severe.



# Billions of Images, Millions of Profiles

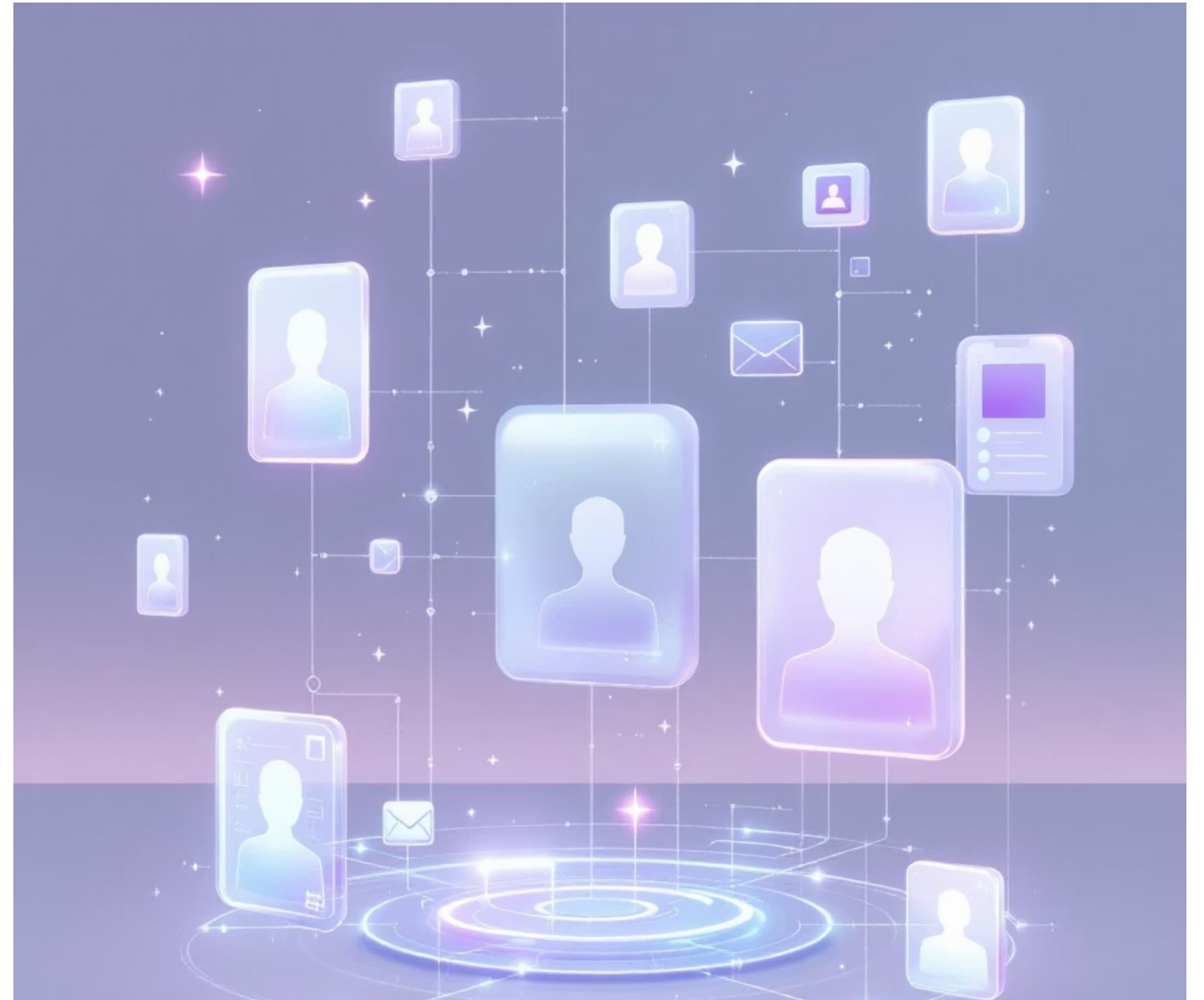
## Face-Recognition Infrastructure

Companies have invested approximately **\$8.83 billion in 2025** to build facial recognition databases. Clearview AI alone reported access to billions of indexed images and faced multi-country fines for unauthorized scraping.



## The Exposure Risk

Every public photo, document, and social post becomes searchable metadata. A single high-resolution profile picture can be indexed by dozens of facial recognition systems within hours. Your online presence is permanent, searchable, and weaponizable.



# Seven Practical Steps to Reduce Your Digital Footprint

## → Scan Your Exposure

Use reverse-image checkers and document searches to audit what's publicly available in your name. Prioritize removal of high-risk documents first.

## → Secure Document Sharing

Never publish resumes or sensitive documents with your full name on public platforms. Use private sharing links, anonymized filenames, and privacy-focused upload services.

## → Redact Personal Affiliations

Avoid publishing exact graduation years, university names, or locations. Use safer phrasing or consider removing affiliation details entirely from public profiles.

## → Lower Photo Resolution

Avoid uploading high-resolution pictures on public platforms. Compress images and strip EXIF metadata containing geolocation, camera model, and timestamps.

## → Strengthen Authentication

Enable two-factor authentication on all accounts. Use unique, complex passwords across different platforms to prevent credential stuffing attacks.

## → Monitor Breaches

Subscribe to breach monitoring services. Schedule regular checks (monthly or quarterly) to detect if your email appears in newly disclosed breaches.

## → Privacy Education

Develop awareness habits. Before posting locations, high-resolution photos, or personal milestones, pause and assess the risk to your security posture.





Proposed Solution

# Public Surface Scanner: An Integrated Defense Platform

A web-based tool that audits your OSINT exposure and provides actionable remediation steps.

1

## Risk Dashboard

Input your name, email, or username. Output includes: count of public documents, reverse-image matches, geotagged posts, username reuse map, and breach database hits.

2

## EXIF Stripper

Automatically removes metadata from images before sharing, eliminating location data and device information.

3

## Attacker Simulator

Shows users an anonymized mock profile of what attackers see—compiled name, workplaces, locations, and photos—making abstract risk tangible for non-technical audiences.

**Feasibility:** Leverages existing open-source APIs and freely available data (Google Dorks, HavelBeenPwned, FaceCheck). Minimal infrastructure costs. Scales from individual dashboards to enterprise/university deployments and third-party APIs.

# Building a Culture of Digital Privacy

## Personal Exposure Score

Users receive a clear metric showing how much of their data is publicly visible and specific action steps to reduce their footprint.

## Public Awareness

Turns complex OSINT concepts into interactive, educational experiences. Non-technical users understand privacy risks and how reconnaissance enables breaches.

## Institutional Training

Schools, companies, and government agencies deploy the tool to train employees on online safety, reducing phishing, identity theft, and social engineering attack success rates.

