



The Clearview Dilemma

Balancing Technological Innovation with Ethical Integrity

Wonhee Yu, Lyra Lee

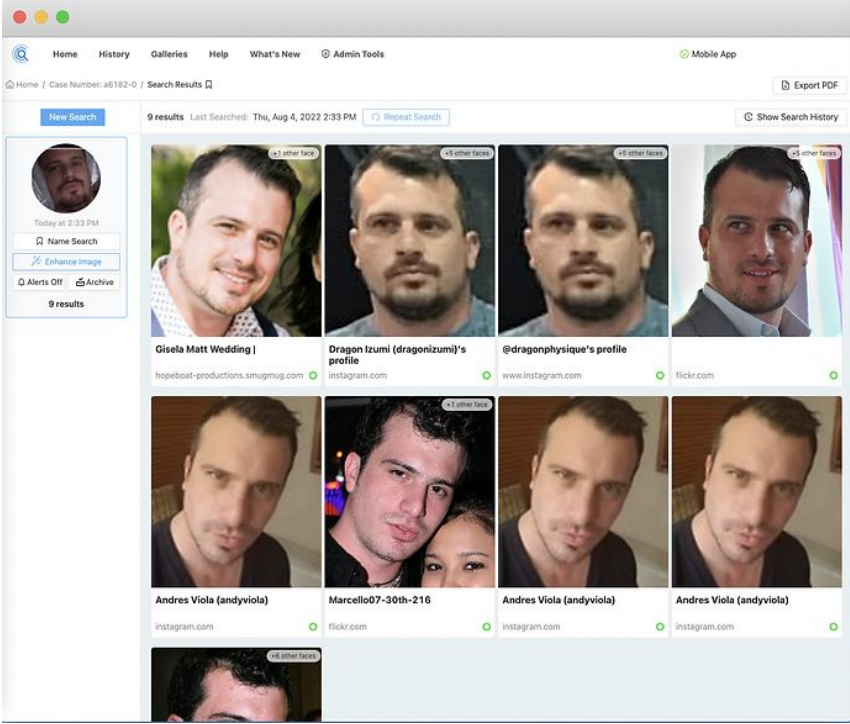
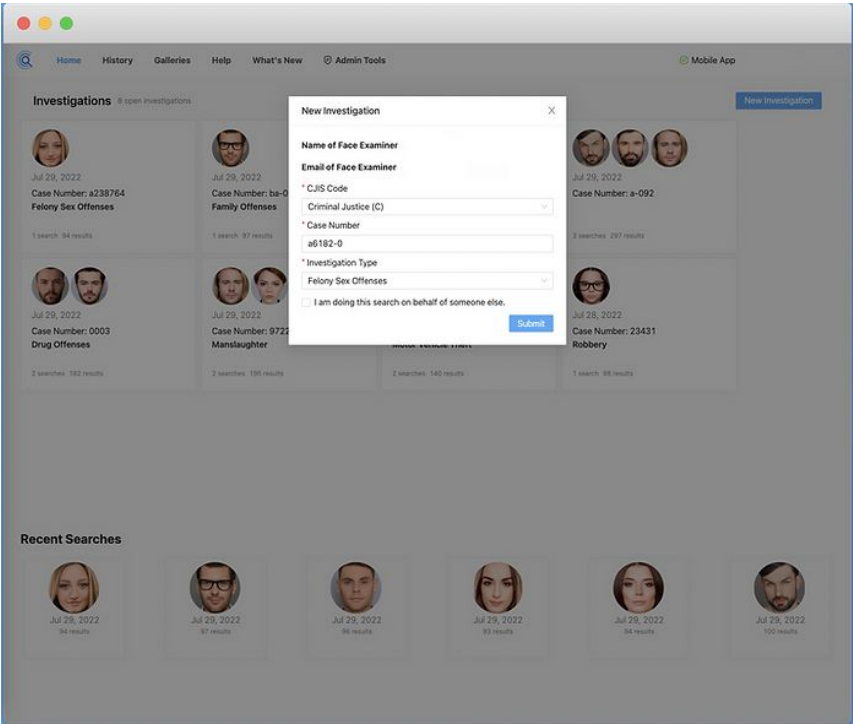


Overview: Clearview AI



- A facial recognition technology based on artificial intelligence (AI)
- A database of billions of images scraped from social media platforms, websites, and other publicly available online sources
- Privacy concerns due to its extensive data collection
- [Clearview AI Company Overview \(youtube.com\)](https://www.youtube.com/watch?v=...)

Demo: Clearview AI



Demo Video

[Clearview AI violated Canadian privacy law with facial recognition: report \(youtube.com\)](#)

Clearview AI's Technology

- Neural network trained on millions of faces
- High matching accuracy and reduced false positives
- NIST FRVT 1:1 TEST: over 99% accuracy across demographics
- Open-web crawling algorithm
- Extensive and diverse database
- Reduced bias due to extensive training



Social Benefits

**THE POWER OF CLEARVIEW AI'S
FACIAL RECOGNITION TECHNOLOGY
IN THE PALM OF YOUR HAND**

Use Cases Powered by Clearview Patrol:

 TRAFFIC STOP SAFETY	 SITUATIONAL AWARENESS
 FIELD INTERVIEWS	 FAILURE TO IDENTIFY
 CRIMINAL TRESPASS	 HOMELESS OR LOST PERSONS ID
 PERSON OF INTEREST ID	 ALZHEIMERS & DEMENTIA PATIENT ID
 INJURED OR HOSPITALIZED VICTIMS	 VICTIM ID

- Crime Investigations
 - Aid in identifying suspects (e.g., Capitol riots)
 - Exoneration of wrongfully accused individuals
- Child Exploitation
 - Identifying and locating victims and perpetrators
 - Accelerating rescue efforts and preventing further harm
- Helping Ukraine
 - Identifying enemy combatants and missing soldiers
 - Enhancing security at key locations

Ethical Concerns

- Privacy and data collection methods (scraping public images) without explicit consent
- Lack of transparency and challenges in opting out
- Data breaches and misuse
- The National Commission on Informatics and Liberty (CNIL) imposed a penalty of 20 million euros and ordered CLEARVIEW AI to stop collecting and using data on individuals in France

Reference: CNIL's article (2022). Facial Recognition: €20 million penalty against Clearview AI' details the French Data Protection Authority's penalty against Clearview AI.

Legal and Regulatory Issues

- Potential civil liberties infringements
- Accuracy, reliability, and biases in the algorithm
- Need for regulation and oversight
- Clearview explicitly stated that it only sold its facial recognition application to law enforcement services in the USA and Canada.
- However, It was implicitly confirmed that private companies and individuals have been using the tool as well by the company in February 2022.

Reference : Queen Mary Law Journal. (2022). Facial recognition technology vs privacy: The case of Clearview AI. Retrieved from heinonline.org

Conclusion

- The trade-offs between innovation and ethics
 - Positive impacts on society, such as aiding in crime investigation
 - Significant ethical integrity concerns, particularly surrounding privacy
- The need for a balanced approach with regulations
 - Enhancing transparency in its data collection practices
 - Providing mechanisms for individuals to opt-out

Thank you!