 Helwan University
Computer and Systems Engineering Dept.	Faculty of Engineering, Helwan University

MOBILE COMPUTING

Course Project - 4th Year

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1. Project Description

Using the power of AI to fight AI:

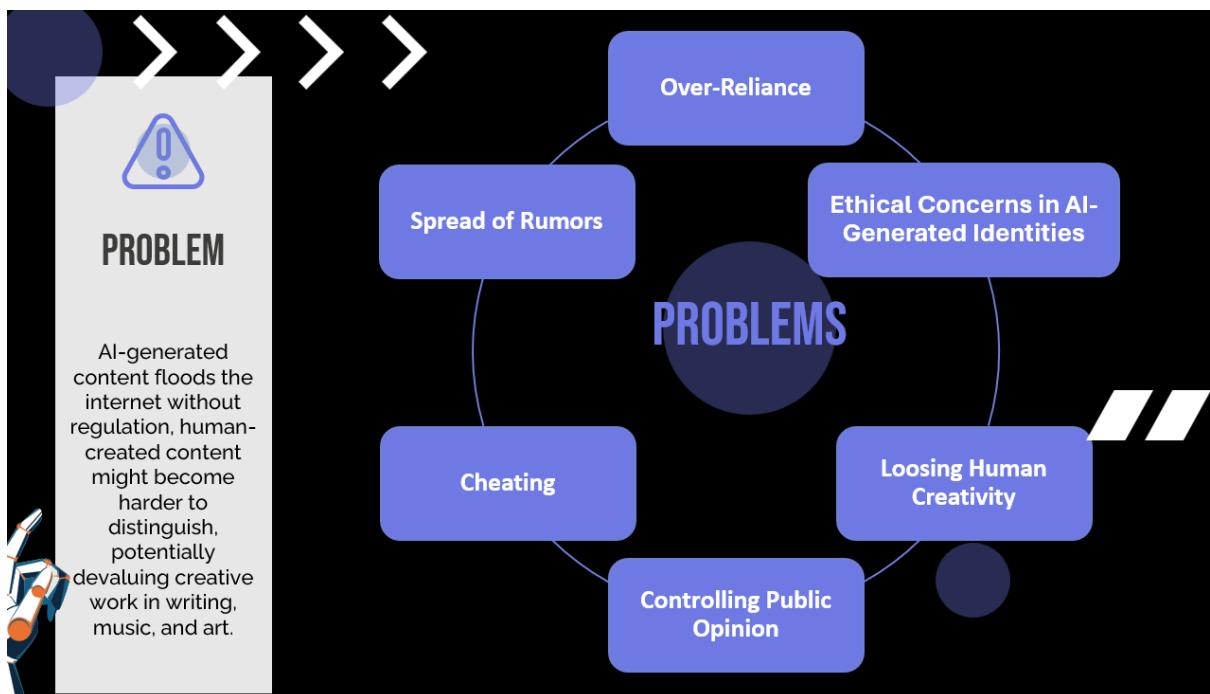
🎙 Deepfake Audio Detector (**Audio Processing**)

🖼 Deepfake Image Detector (**Computer Vision**)

✍️ AI-generated Text (**Natural Language Processing**)

Packaged all-in-one:

- Simple and easy-to-use UI (**Frontend**)
- Optimized infrastructure (**Backend, Cloud and DevOps**)



2. Relevant Features

1. Account Management

1.1. Sign up

1.2. Sign in

2. Deepfake Detection

2.1. Audio Detection via Upload/Drag and Drop

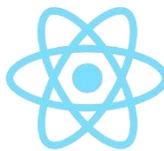
2.2. Image Detection via Upload/Drag and Drop

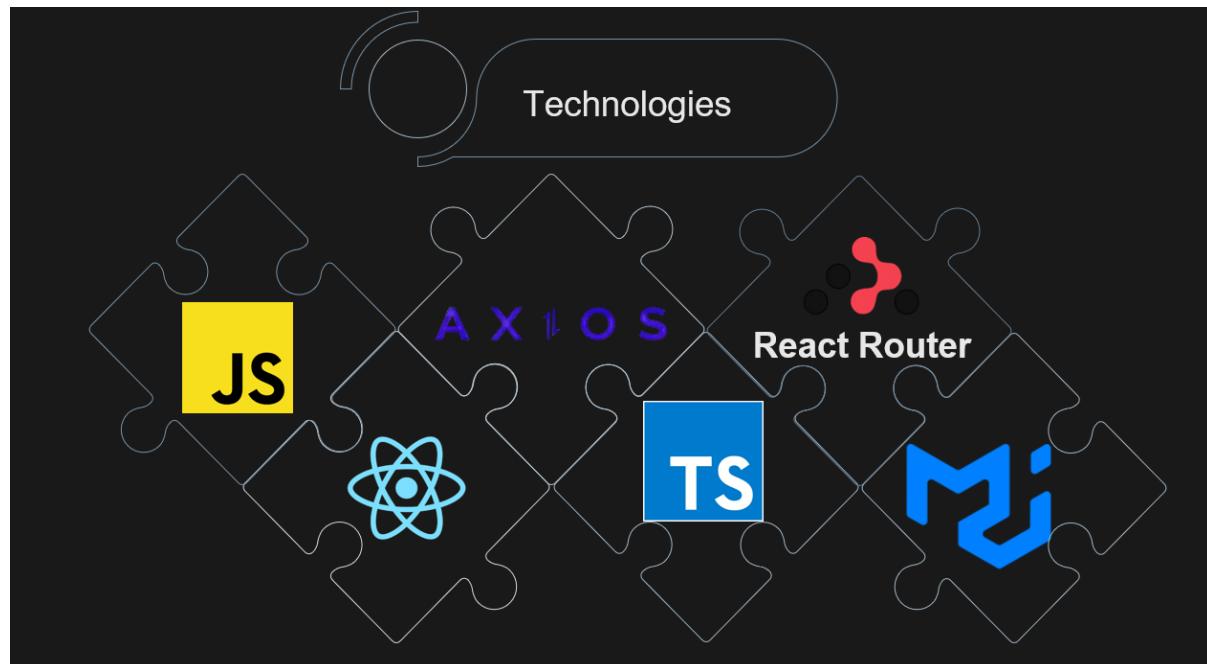
2.3. Text Detection via Text Field or Paste Copied

3. **History Retrieval:** List past analysis results associated with each model.

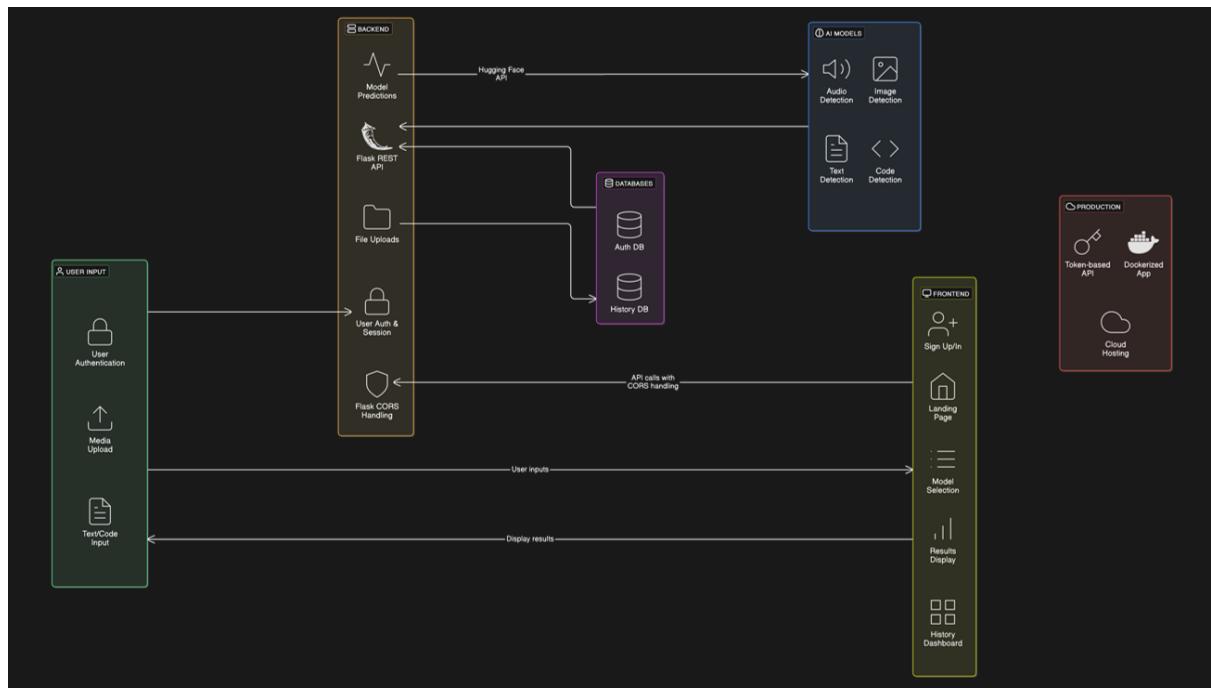
4. **Notifications:** Receiving active notification.

3. Web App Technologies

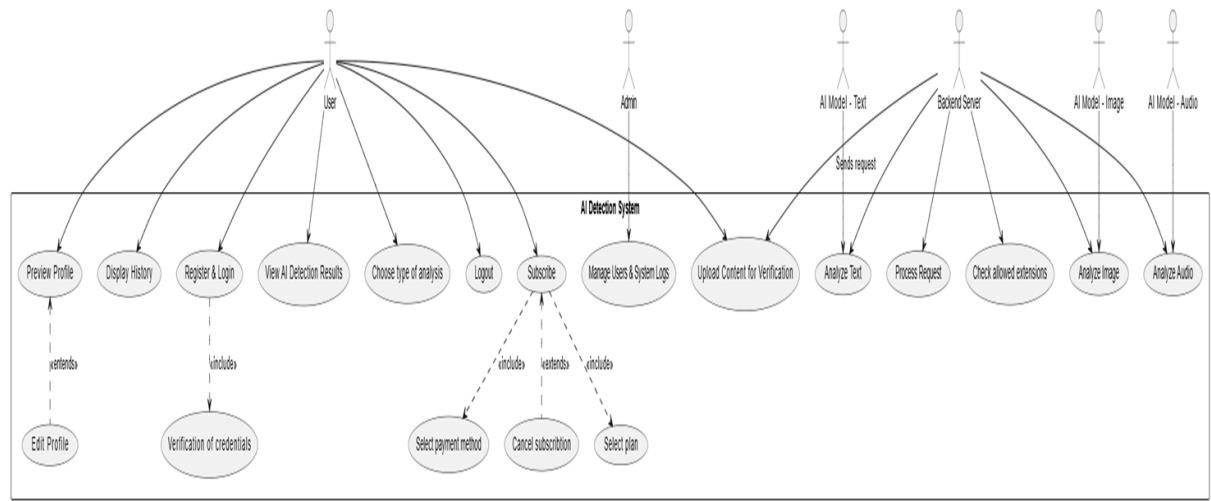
Frontend	Backend	Databases
		



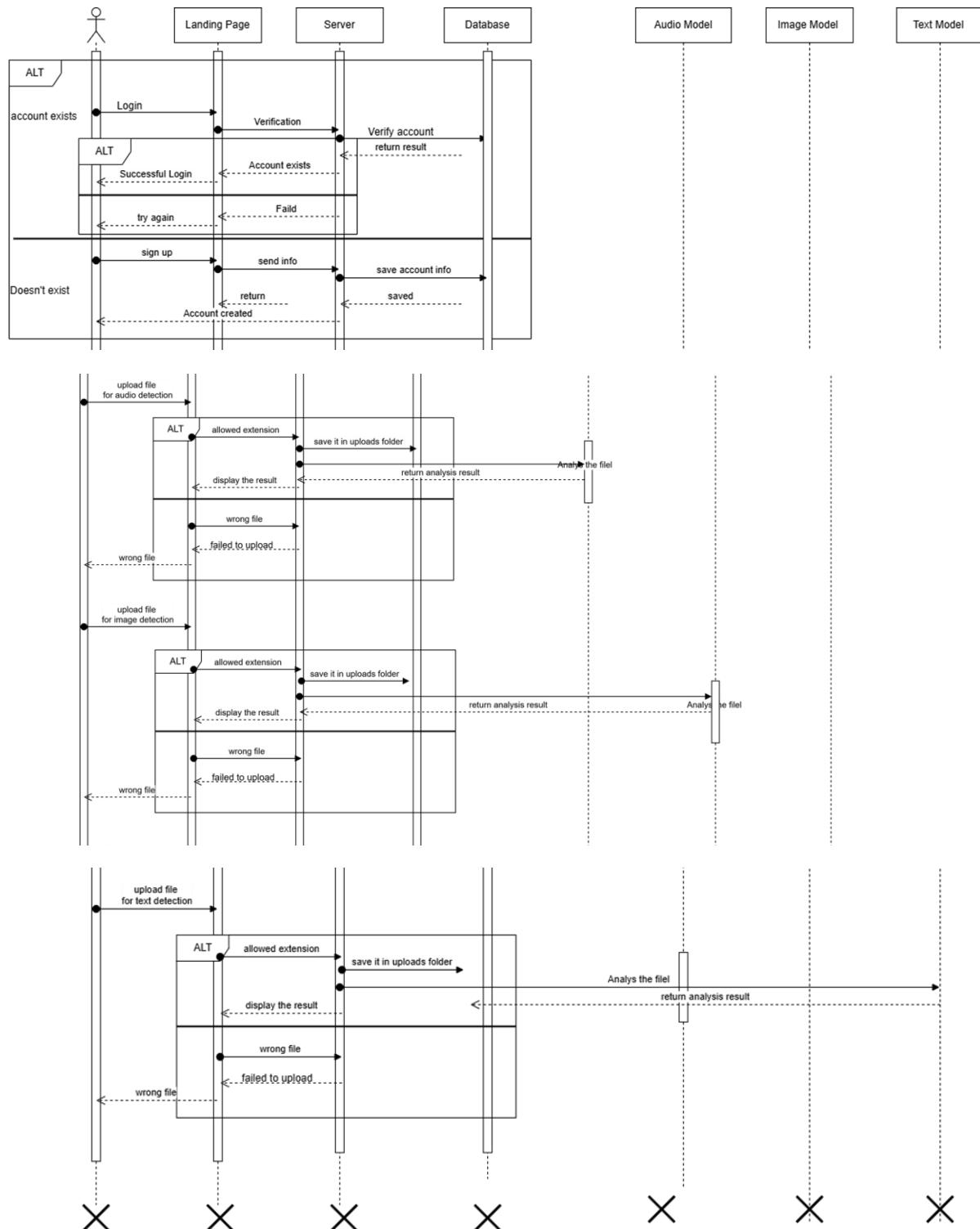
4. System Diagrams

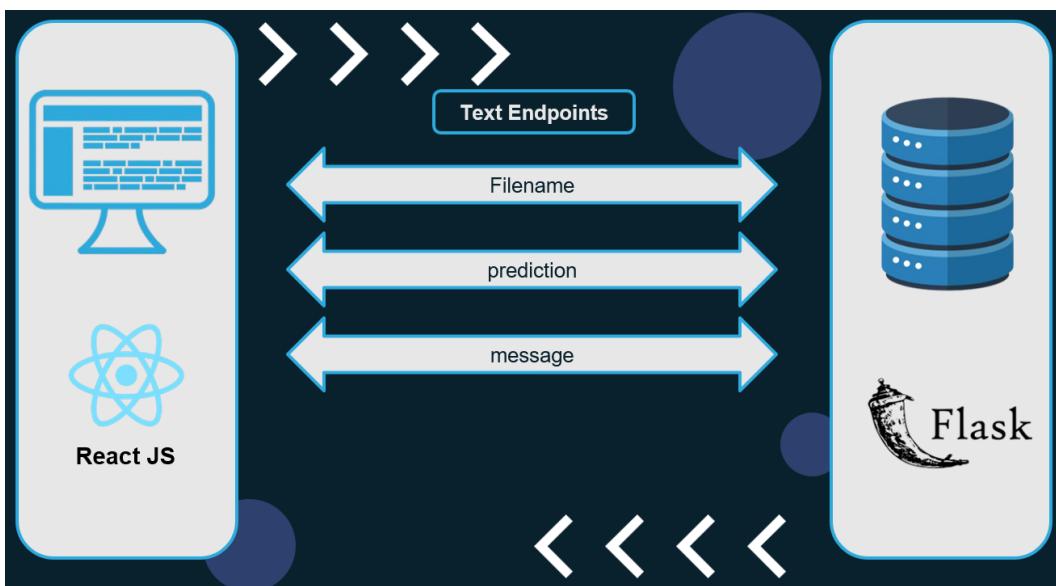
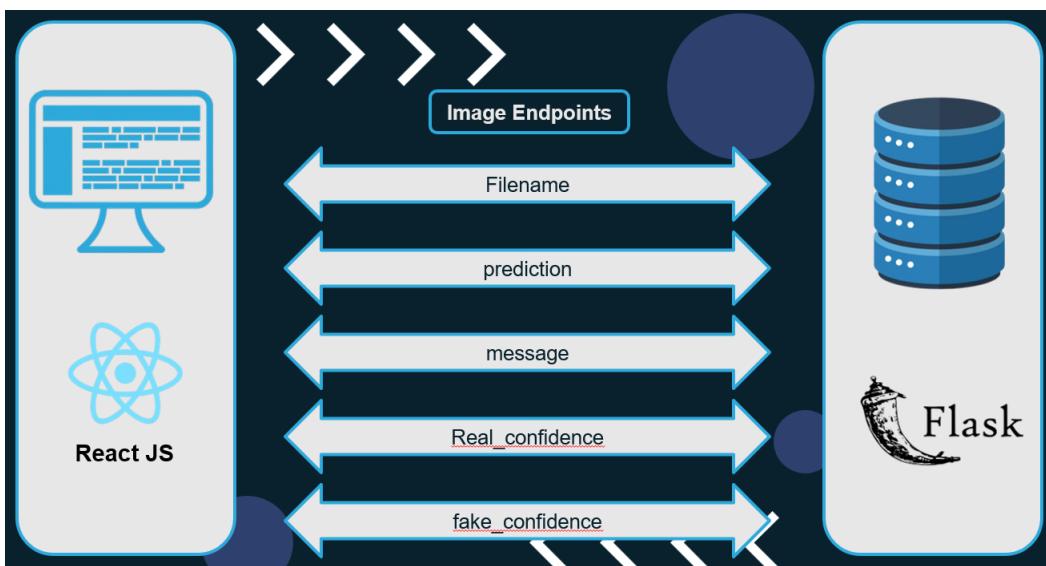
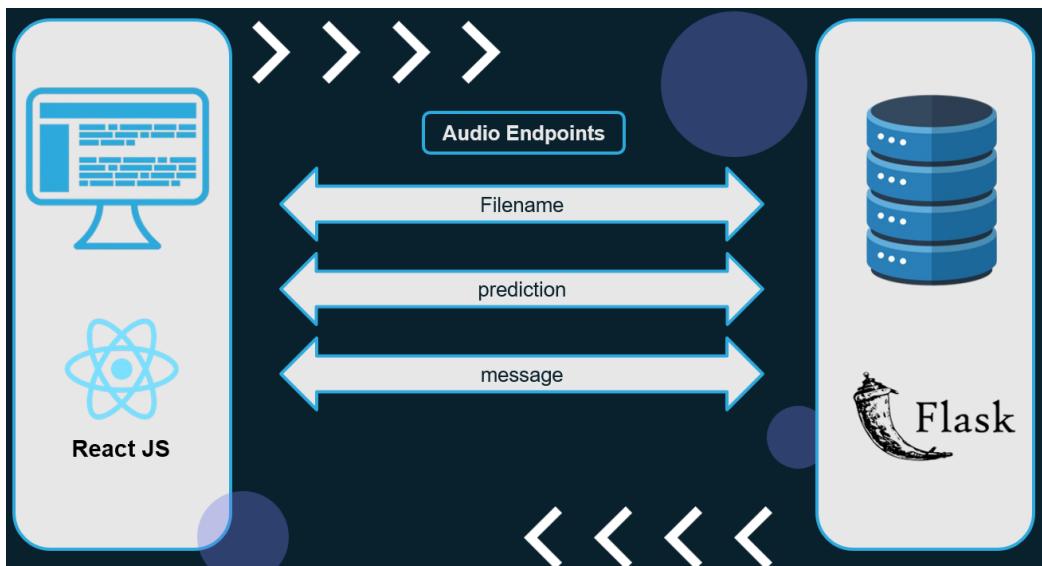


Use Case:



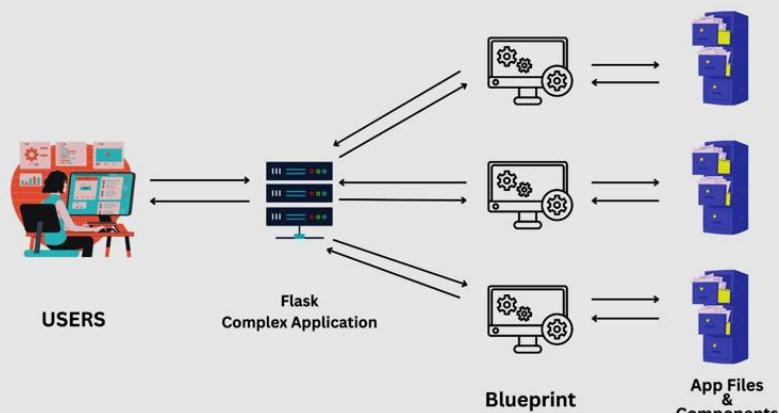
Sequence Diagram:





BLUEPRINTS

Modular structure by separating different API functionalities (audio and image) into independent, reusable components.



5. Sample Screens and Interactions

The screenshot shows the homepage of the TrueLens AI content detection tool. The header features the logo "TrueLens" and navigation links for "About", "Image", "Testimonials", "Contact", a notification bell icon, and a "Login" button. The main content area has a teal background with a large, friendly blue robot character on the right. On the left, there's a "Hi" greeting and a paragraph about the platform's purpose: "Unleash the power of authenticity with our cutting-edge AI content detection tool. Whether you're verifying originality, ensuring academic integrity, or maintaining trust in your brand, our platform uses advanced algorithms to accurately identify AI-generated text. Fast, reliable, and user-friendly, it's your go-to solution for spotting the difference between human creativity and machine-generated content." A yellow horizontal bar is at the bottom of the content area.

Image

Testimonials

Contact



New Message

35 mins ago

You have received a new message from a user.



Order Shipped

2 hours ago

Your recent order #12345 has been shipped.



Report Ready

Yesterday

Your weekly AI detection report is ready for review.



About

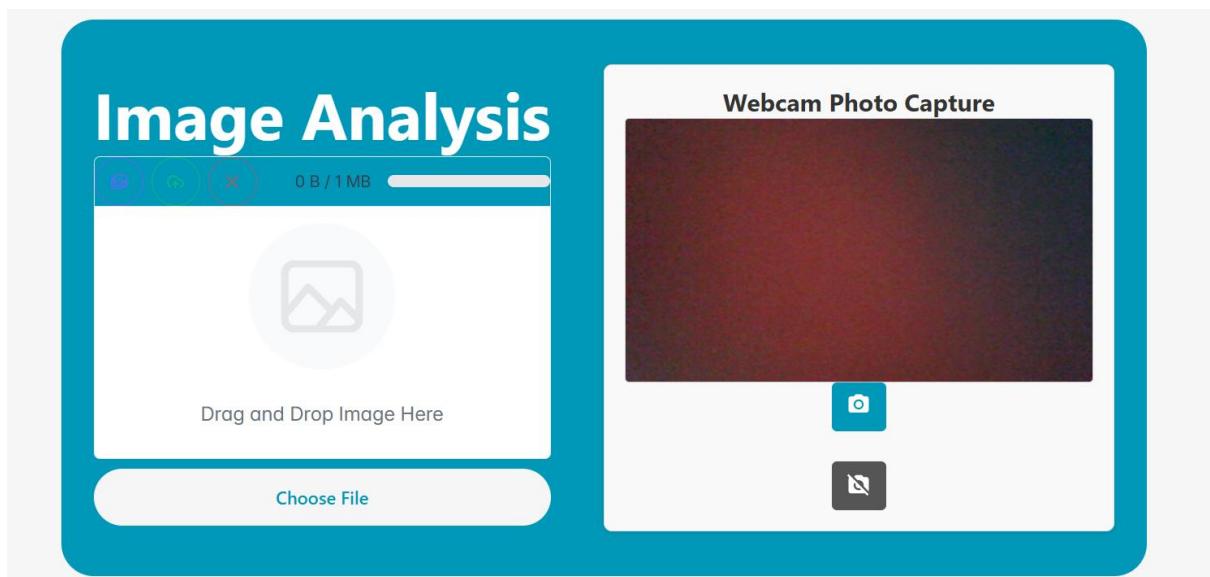
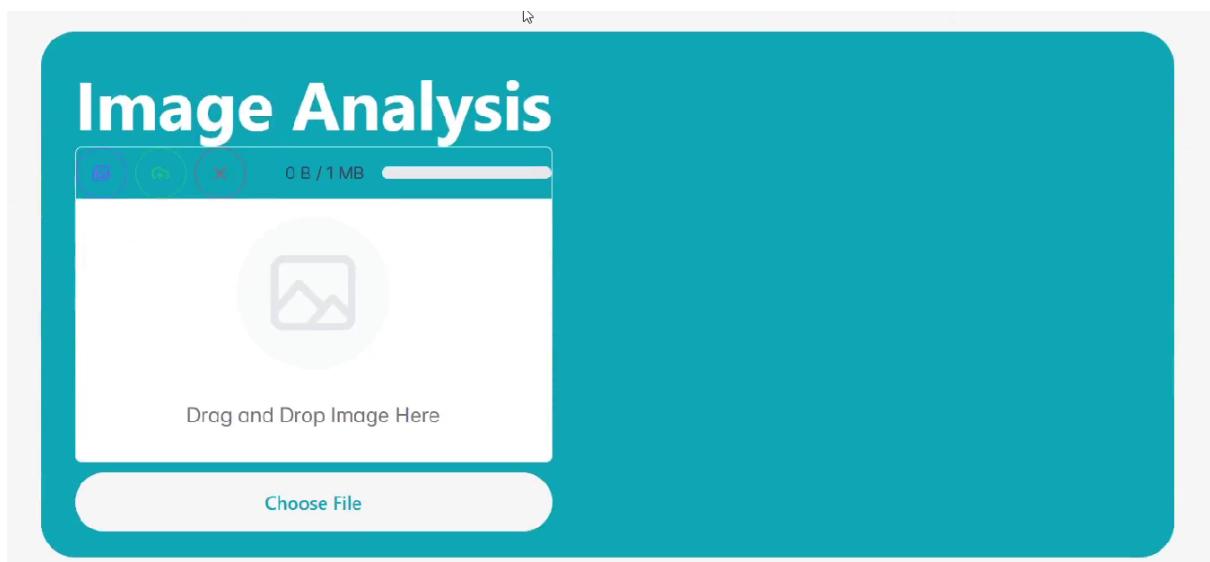
The Deep-fake Detector identify and mitigate threats posed by manipulated content.

Generated by advanced machine learning models, poses risks in areas such as cybersecurity, misinformation, and privacy.

This tool helps users detect such manipulations efficiently and accurately, thereby ensuring trust and security.

[Learn More](#)

[Watch Video](#)



Audio Analysis

Choose File

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Testimonials

What they are saying

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