



# AI Detectors

– **In collaboration with NASA**  
**GRC**

DECEMBER 10, 2024

Breakfast and Icebreaker	9:00 – 9:30
<b>Learn: What are AI Detectors?</b>	9:30 – 10:00
<b>Copyleaks Learn and Lab</b>	10:00 – 10:50
Break	10:50 – 11:00
Kahoot round 1	11:00 – 11:20
<b>ZeroGPT Learn and Lab</b>	11:20 – 12:10
Kahoot round 2	12:10 – 12:30
Wrap-up	12:30 – 12:45

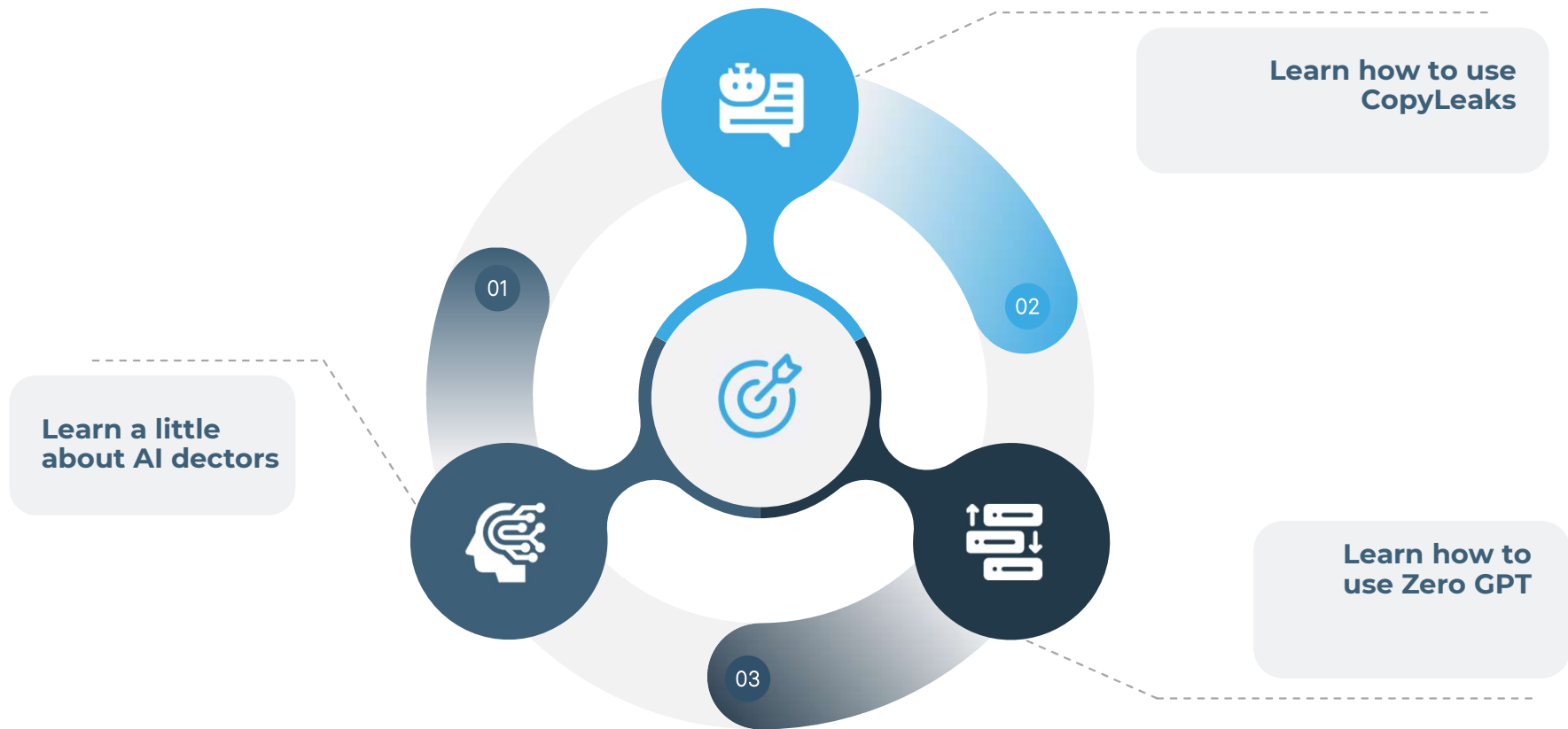


The screenshot shows a slide titled 'Agenda' with the SaND)AI logo in the top right corner. The slide content is as follows:

Breakfast and Icebreaker	9:00 – 9:30
<b>Learn: What are AI Detectors?</b>	9:30 – 10:00
<b>Copyleaks Learn and Lab</b>	10:00 – 10:50
Break	10:50 – 11:00
Kahoot round 1	11:00 – 11:20
<b>ZeroGPT Learn and Lab</b>	11:20 – 12:10
Kahoot round 2	12:10 – 12:30
Wrap-up	12:30 – 12:45

---

# Three take-aways from this training





# Learn: What are AI Detectors?

# The Genesis of AI Detection

## Academia

A. Joe Biden



B. Annette Schavan



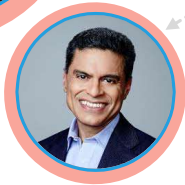
C. Karl-Theodor zu Guttenberg



D. Jayson Blair

## Journalism

Copyright © SANDAIGLOBAL



E. Fareed Zakaria



F. Alex Haley



G. Kaavya Viswanathan

## Literature/Publishing

Ethical concerns and that P word!

H. Vladimir Putin



I. Melania Trump

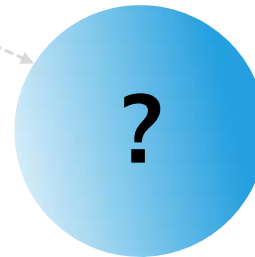


J. Robin Thicke and Pharrell Williams



## Entertainment

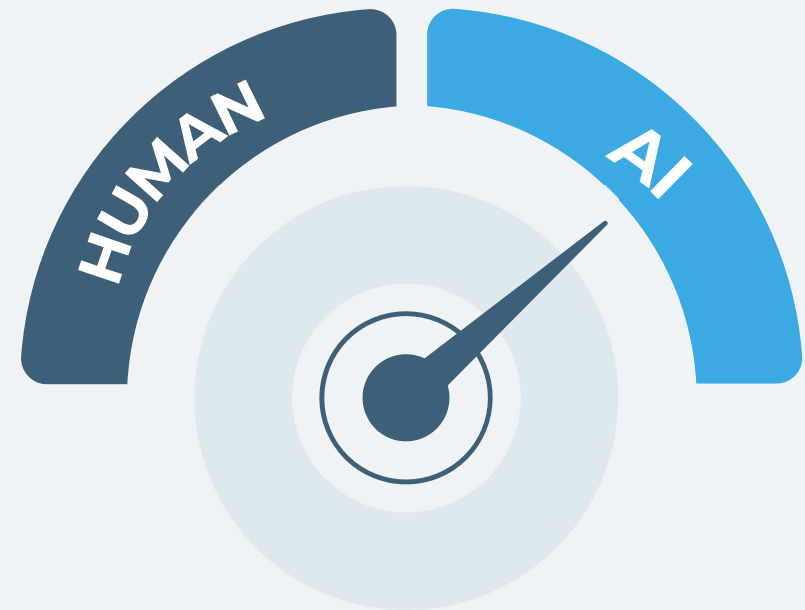
K. Shia LaBeouf





## AI Takeover

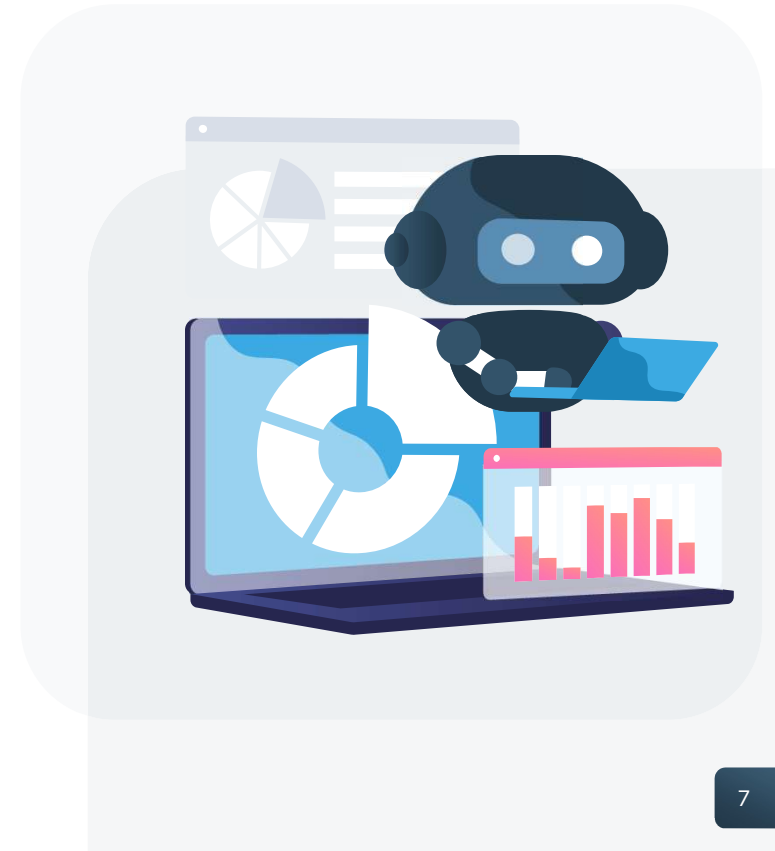
In recent years, AI has revolutionized content creation, allowing for the generation of essays, programming scripts, creative works, and even entire research papers. While this has opened new possibilities, it also poses challenges for ensuring authenticity, originality, and ethical content use.



---

# Introduction to AI Detection Tools

- AI detection tools address these challenges by verifying the source of content and helping maintain integrity across various domains.
- AI detection tools are designed to identify content generated by artificial intelligence models, such as GPT-3, GPT-4, and similar technologies.
- These tools analyze text, code, or other forms of content to determine if AI played a role in its creation. As the AI market grows in its ability to produce high-quality text, code, and multimedia, detection tools have become necessary for maintaining originality, credibility, and, most importantly, ethical standards in various fields.



# History of AI Detection Tools

## Pre 2015

Early Plagiarism  
Detection Tools



## 2015-2019

Emergence of AI  
Detection Tools

## 2020-2022

First Specialized AI  
Detection Tool



## 2023-Present

Current Trends and  
Advancements

## GPTZero



---

# The Importance of AI detectors



## Ensuring Originality

AI detection tools help verify whether the work submitted is genuinely created by a human or generated by AI, ensuring fairness and integrity.



## Supporting Ethical Practices

By identifying AI-generated content, these tools promote transparency, ensuring that AI use is disclosed and handled responsibly.



## Upholding Academic Integrity

These tools are widely used by educators to detect AI-assisted assignments or research papers, discouraging students from relying on AI for unpermitted tasks.



## Maintaining Credibility

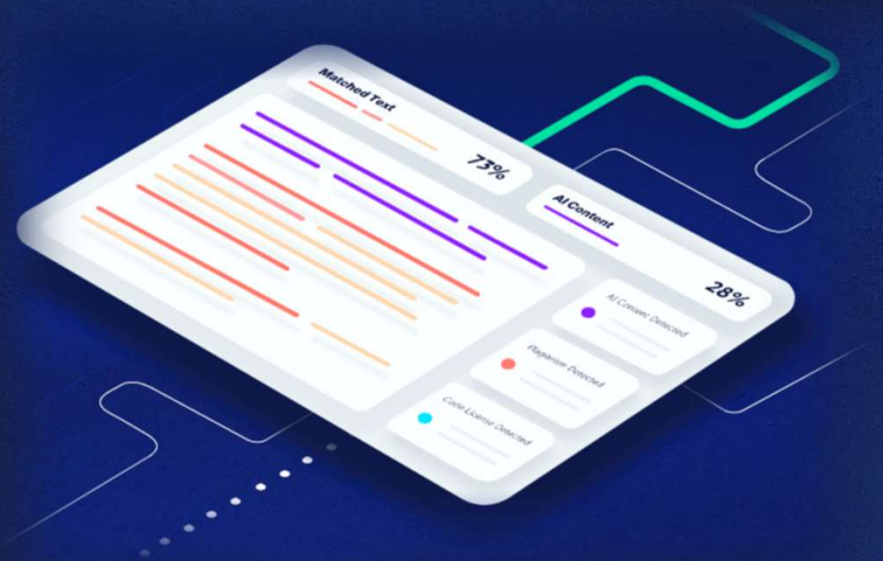
For organizations and publishers, confirming the authenticity of content increases trust among stakeholders, readers, and audiences.

# Types of AI Detectors

Tool Name	Detects Text	Detects Code	Detects Images	Pricing
Originality.AI	✓	✗	✗	Paid
Copyleaks	✓	✓	✗	Paid
GPTZero	✓	✗	✗	Free & Paid
ZeroGPT	✓	✗	✗	Free
Writer.com's AI Detector	✓	✗	✗	Free
Content at Scale's AI Detector	✓	✗	✗	Free & Paid
Crossplag	✓	✗	✗	Free & Paid
Winston AI	✓	✗	✗	Paid
Sapling	✓	✗	✗	Free & Paid
Hugging Face AI Detector	✓	✗	✗	Free
GLTR	✓	✗	✗	Free
Undetectable.ai	✓	✗	✗	Free & Paid
Reality Defender	✓	✗	✓	Contact for Pricing



# Copyleaks Learn and Lab



LEARN

# Copyleaks

Launched in 2015, Copyleaks began as a plagiarism detection tool but quickly evolved to address the growing need to detect AI-generated content as its prevalence increased.



## CAPABILITIES



### Text and Code Detection:

Specializes in identifying both written content and programming scripts generated by AI, making it a go-to tool for technical fields.



### Multi-Language Support:

Offers detection capabilities in multiple languages, enhancing its usability across global academic and professional contexts.

## STRENGTHS



### All-in-One Solution:

Combines plagiarism detection and AI content detection in a single platform.



### High Accuracy for Code:

Particularly strong in detecting AI-written programming scripts, a feature that sets it apart from many other tools.



### Custom Workflow Integration:

Supports API functionality, allowing organizations to incorporate it into their unique workflows.

## WEAKNESSES

### Limited Multimedia Detection

While Copyleaks excels at detecting text and code, it does not support the detection of AI-generated multimedia content, such as images, audio, or video.

### Moderate User Interface Complexity

The interface, while feature-rich, may feel overwhelming for non-technical users or those unfamiliar with advanced detection tools.

### Cost

Copyleaks can be expensive for smaller organizations or individual users, especially when requiring advanced features like API integration or multi-language support.

### Dependence on Predefined AI Models

Its detection capabilities are limited to the specific AI models it has been trained to recognize, which could lead to challenges as new models emerge rapidly.

### False Positives/Negatives

Like other AI detection tools, Copyleaks may occasionally misidentify content, either flagging human-written text as AI-generated (false positive) or failing to detect AI involvement (false negative).

## LAB: USE CASE #1 “JASIM ARTICLE”

### Step 1

#### Sign Up or Log In

Visit the Copyleaks website and create an account or log in if you already have one.

### Step 2

#### Upload Content for Scanning

- Once logged in, click on "New Scan" from the dashboard.
- Upload the content you wish to scan (e.g., a document, text, or programming code) from your computer. You can also paste the content directly.

### Step 3

#### Select Detection Options

- Choose "AI Detection" for text or "Code AI Detection" for programming scripts.
- For text, you can choose to scan for both plagiarism and AI-generated content.

### Step 4

#### Analyze Results

- After uploading, click "Start Scan" and wait for the results to process.
- Once the scan is complete, Copyleaks will provide a detailed report, highlighting flagged sections and indicating the percentage of AI-generated content.
- Review the report to identify sections of the content that may have been written by AI.

### Step 5

#### Export Results

You can download the report in PDF format or share it with colleagues using the provided sharing options.

### Step 6

#### Hands-On Practice

- Upload different types of content (e.g., essays, research papers, code) to understand how Copyleaks performs across various domains.
- Compare its performance with other plagiarism or AI detection tools.

## LAB: USE CASE #2 “US CONSTITUTION”

### Step 1

#### Sign Up or Log In

Visit the Copyleaks website and create an account or log in if you already have one.

### Step 2

#### Upload Content for Scanning

- Once logged in, click on "New Scan" from the dashboard.
- Upload the content you wish to scan (e.g., a document, text, or programming code) from your computer. You can also paste the content directly.

### Step 3

#### Select Detection Options

- Choose "AI Detection" for text or "Code AI Detection" for programming scripts.
- For text, you can choose to scan for both plagiarism and AI-generated content.

### Step 4

#### Analyze Results

- After uploading, click "Start Scan" and wait for the results to process.
- Once the scan is complete, Copyleaks will provide a detailed report, highlighting flagged sections and indicating the percentage of AI-generated content.
- Review the report to identify sections of the content that may have been written by AI.

### Step 5

#### Export Results

You can download the report in PDF format or share it with colleagues using the provided sharing options.

### Step 6

#### Hands-On Practice

- Upload different types of content (e.g., essays, research papers, code) to understand how Copyleaks performs across various domains.
- Compare its performance with other plagiarism or AI detection tools.

## LAB: USE CASE #3 “FORTUNE 500”

### Step 1

#### Sign Up or Log In

Visit the Copyleaks website and create an account or log in if you already have one.

### Step 2

#### Upload Content for Scanning

- Once logged in, click on "New Scan" from the dashboard.
- Upload the content you wish to scan (e.g., a document, text, or programming code) from your computer. You can also paste the content directly.

### Step 3

#### Select Detection Options

- Choose "AI Detection" for text or "Code AI Detection" for programming scripts.
- For text, you can choose to scan for both plagiarism and AI-generated content.

### Step 4

#### Analyze Results

- After uploading, click "Start Scan" and wait for the results to process.
- Once the scan is complete, Copyleaks will provide a detailed report, highlighting flagged sections and indicating the percentage of AI-generated content.
- Review the report to identify sections of the content that may have been written by AI.

### Step 5

#### Export Results

You can download the report in PDF format or share it with colleagues using the provided sharing options.

### Step 6

#### Hands-On Practice

- Upload different types of content (e.g., essays, research papers, code) to understand how Copyleaks performs across various domains.
- Compare its performance with other plagiarism or AI detection tools.





ZERO GPT

# ZeroGPT Learn and Lab

## LEARN

# ZEROGPT

ZeroGPT is a specialized tool developed to address the increasing demand for detecting AI-generated text. It focuses on distinguishing human-written content from AI outputs, leveraging advanced algorithms tailored to OpenAI's GPT-based models.

### CAPABILITIES



#### Text Detection

Excels in identifying AI-generated text, particularly from GPT models.



#### Multi-Language Support

Reliable detection across multiple languages, broadening its appeal for global users.

### STRENGTHS



#### High Accuracy for GPT Models

Effectively detects content generated by OpenAI's models, making it a strong choice for educators, writers, and professionals.



#### Free Access Option

Offers free detection services, accessible to individual users and smaller organizations.



#### Simple User Interface

Designed with non-technical users in mind, ensuring an easy-to-navigate platform.

---

LEARN



## WEAKNESSES

### Limited Detection Scope

Focused exclusively on text detection, lacking support for identifying AI-generated images, audio, or code.

### Dependence on Known AI Models

Relies on pre-trained knowledge of AI models, which may limit its accuracy with new or rapidly evolving models.

### Lack of Advanced Features

Does not include features like plagiarism detection, workflow API integration, or multimedia analysis.

---

## LAB: USE CASE #1 “US CONSTITUTION”



### Step 1

#### Access ZeroGPT

Visit the [ZeroGPT](#) website and use the detection tool directly without the need for account creation.

### Step 2

#### Upload or Paste Content

Copy and paste the text you wish to analyze into the provided input box or upload a document.

### Step 3

#### Initiate Detection

Click "Detect" to start the analysis process. ZeroGPT will process the content and provide results in seconds.

### Step 4

#### Review Results

The tool will highlight sections suspected to be AI-generated and indicate a confidence percentage for the detection.

### Step 5

#### Compare with Other Tools

To better understand its performance, compare ZeroGPT's results with those from other AI detection platforms.

---

## LAB: USE CASE #2 “STUDENT ARTICLE”



### Step 1

#### Access ZeroGPT

Visit the [ZeroGPT](#) website and use the detection tool directly without the need for account creation.

### Step 2

#### Upload or Paste Content

Copy and paste the text you wish to analyze into the provided input box or upload a document.

### Step 3

#### Initiate Detection

Click "Detect" to start the analysis process. ZeroGPT will process the content and provide results in seconds.

### Step 4

#### Review Results

The tool will highlight sections suspected to be AI-generated and indicate a confidence percentage for the detection.




### Step 5

#### Compare with Other Tools

To better understand its performance, compare ZeroGPT's results with those from other AI detection platforms.



# Contact Us!

-  (202) 754-5959
-  [jeremy@sandaiglobal.com](mailto:jeremy@sandaiglobal.com)
-  <https://sandaiglobal.net/>



**“Innovation  
distinguishes  
between a leader  
and a follower”  
- Steve Jobs.**

Scan to learn more



Seven-Step Approach

