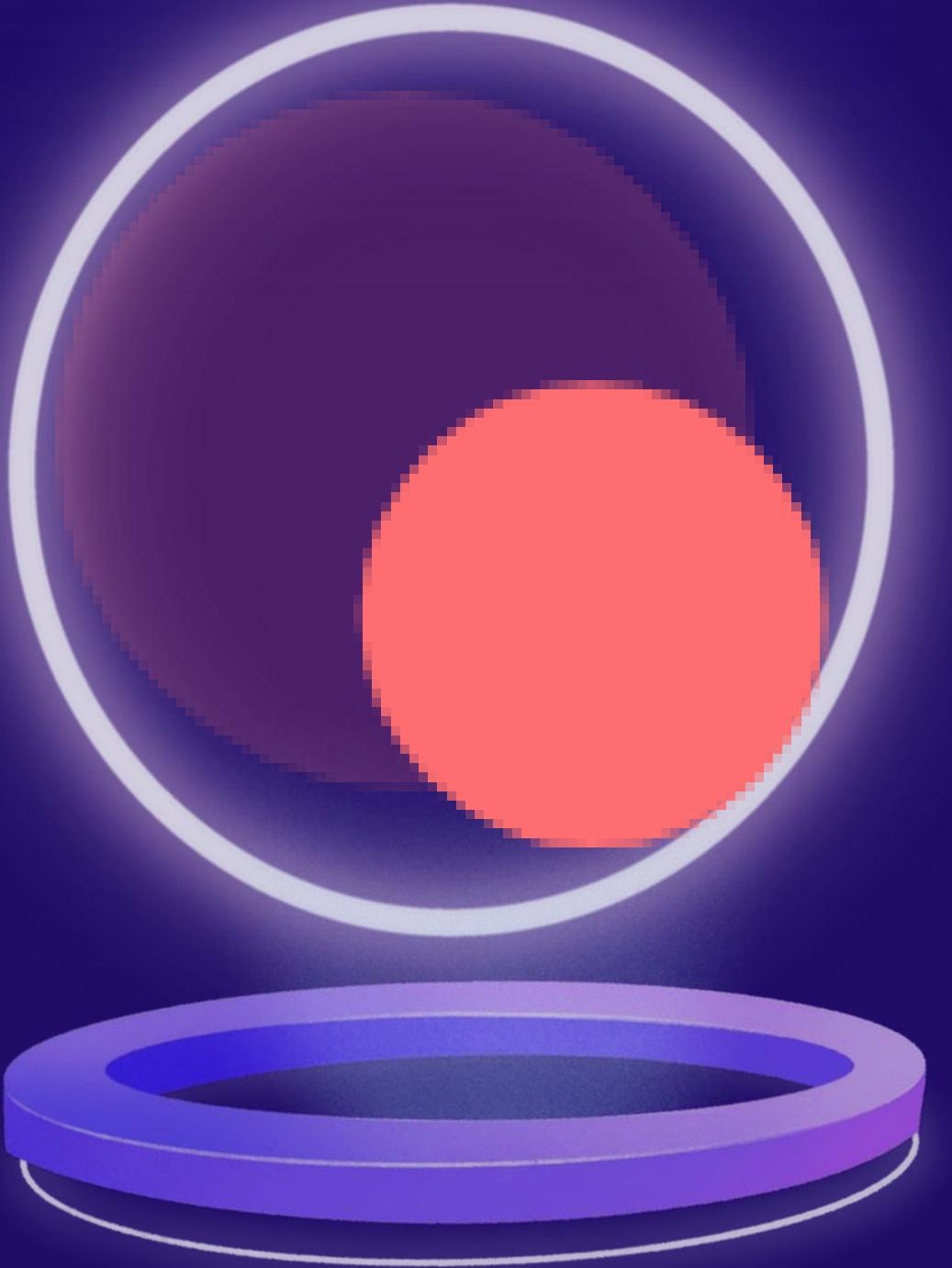


# CHEC-X

AI-Powered Integrity for Secure Online Exams

Team Name: Special Chouka



# Agenda

The Problem

The Solution - StoreIt!

Core Features & Innovation

Live Demo

Links for access

Tech Stack & Scalability

Impact

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# The Problem

- ❑ **Exam Malpractices:** Increasing cases of impersonation and cheating in online exams.
- ❑ **Manual Proctoring Limitations:** Human proctors can't effectively monitor multiple students at scale.
- ❑ **Privacy & Security Issues:** Traditional methods risk data breaches and inefficient verification.



# The Solution – CHEC-X!

- **Face Liveness Detection:** AI ensures the person taking the exam is real and present.
- **Head Pose Estimation:** Tracks head movements to detect suspicious behavior.
- **Audio Monitoring:** Detects background voices and potential unauthorized assistance.

# Core Features & Innovation

## Cutting-Edge Capabilities

<b>AI-Powered Face Liveness:</b>	Prevents spoofing attempts using deep learning.
<b>Real-Time Head Pose Tracking:</b>	Detects suspicious head movements.
<b>Background Noise Detection:</b>	Alerts when unauthorized voices are detected.
<b>Multithreading for Performance:</b>	Ensures real-time monitoring without lag.
<b>Automated Reporting:</b>	Generates logs for each exam session.
<b>Secure Cloud Integration:</b>	Encrypted data storage for proctoring logs.

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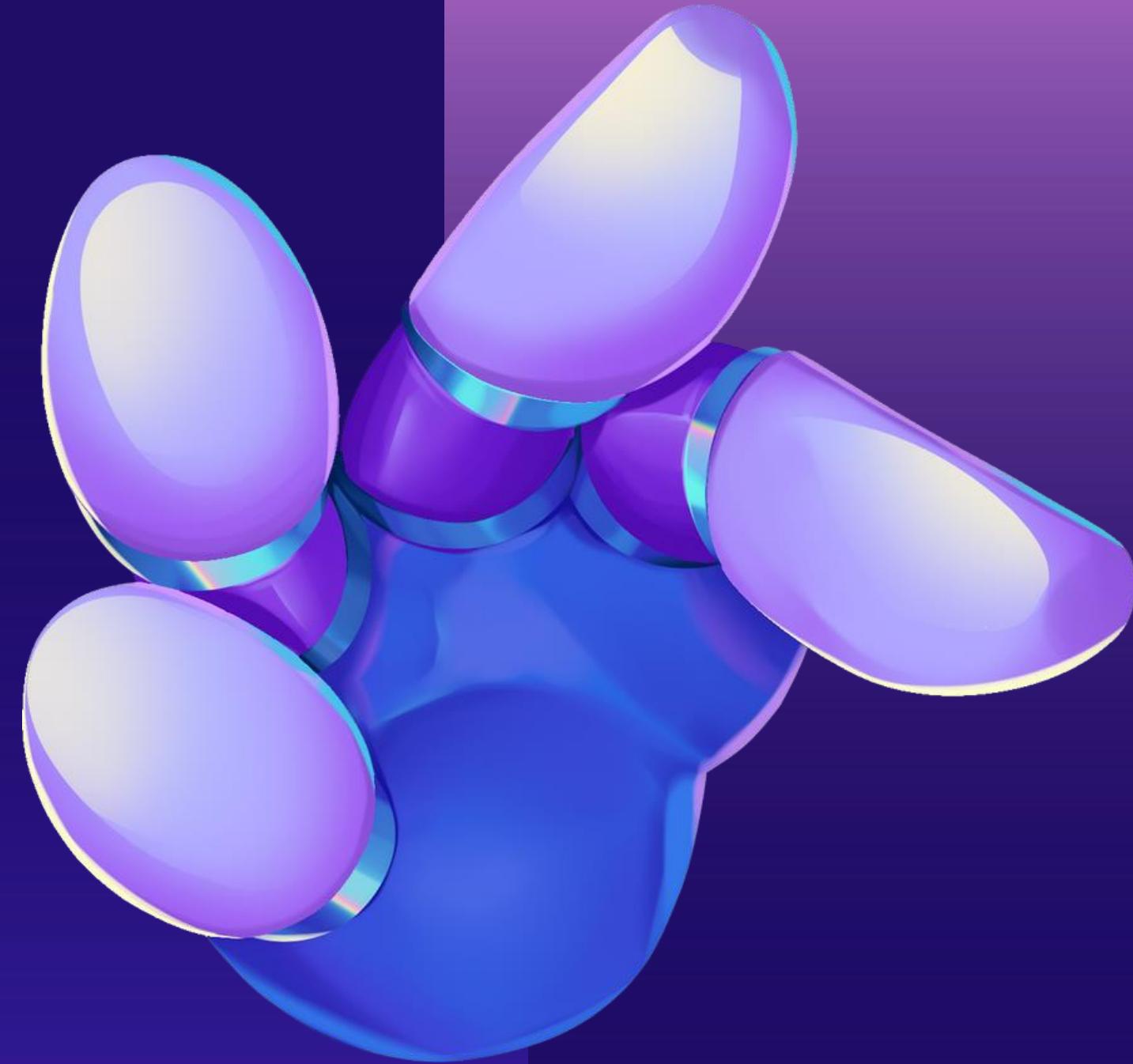
# Links for access

[GitHub link - https://github.com/Bishu-21/CHEC-X](https://github.com/Bishu-21/CHEC-X)

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# Tech Stack & Scalability

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## Backend

Python (Flask)

## AI Models:

OpenCV, TensorFlow, ONNX  
for face liveness detection

## Audio Processing:

SoundDevice, NumPy for  
background noise analysis

## Future Expansion

Browser extension,  
keystroke monitoring, and  
AI behavioral analysis

# Impact



## How AI Video Proctor Enhances Exam Integrity

- Eliminates impersonation with AI-powered face verification.
- Reduces cheating through head pose and audio detection.
- Scalable for universities, corporate exams, and certification bodies.

Fosters a fair exam environment with automated, unbiased monitoring.

Ensures privacy with encrypted proctoring logs.



# 7 Final Call: Smart, Secure, AI-Powered Proctoring!

-  Revolutionizing online exam security with AI-driven automation!
-  No cheating, no manual monitoring—just seamless integrity.
-  Experience the future of proctoring with AI Video Proctor!

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# Thank You!