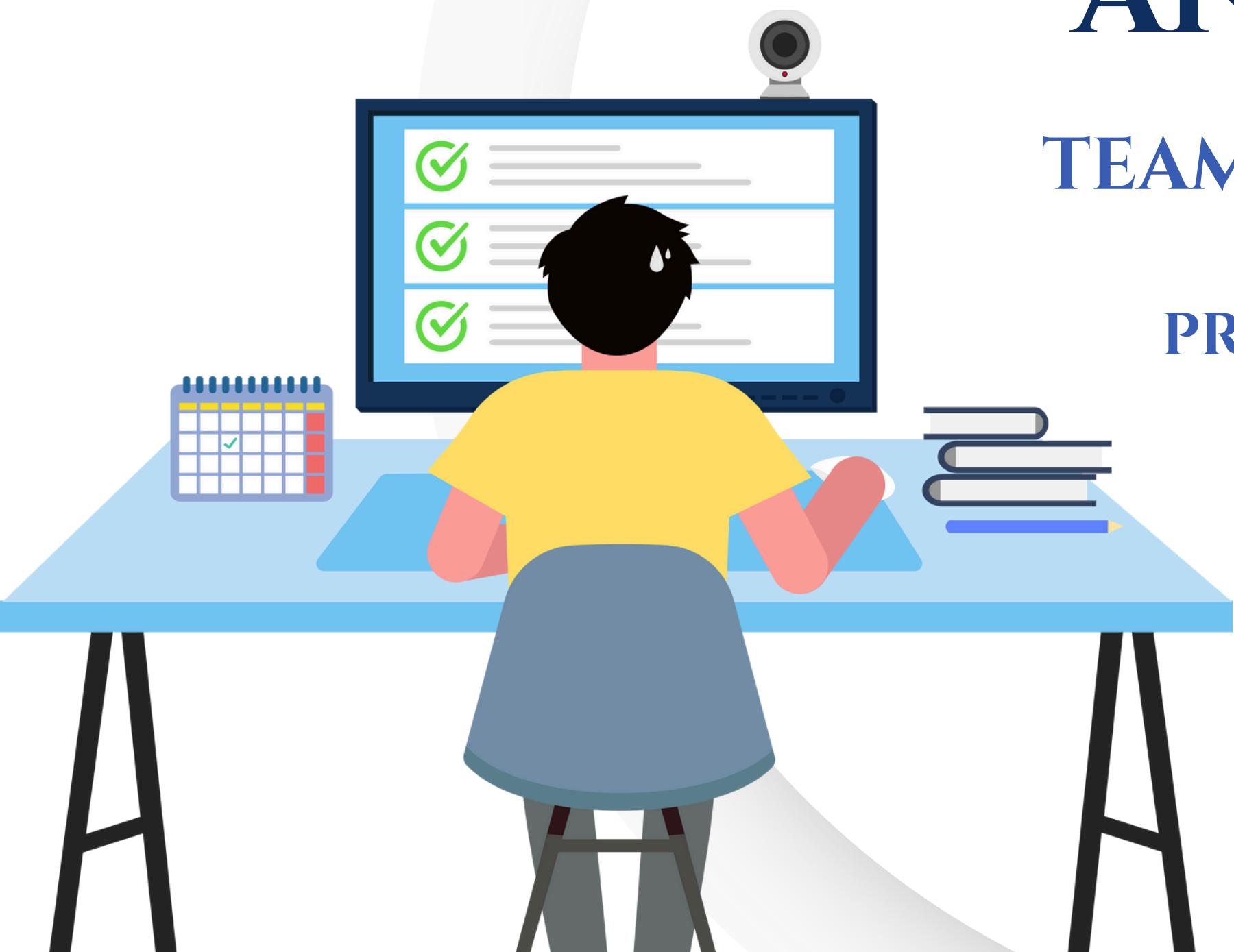
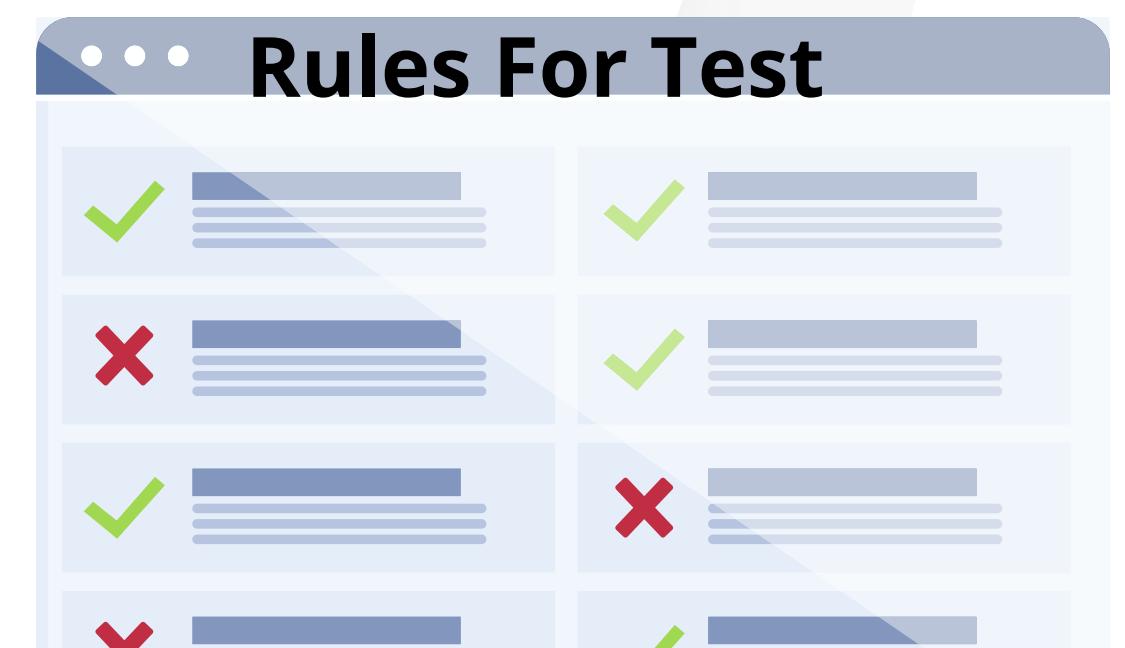


VIDEO PROCTORING ANALYSIS



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TEAM MEMBERS :
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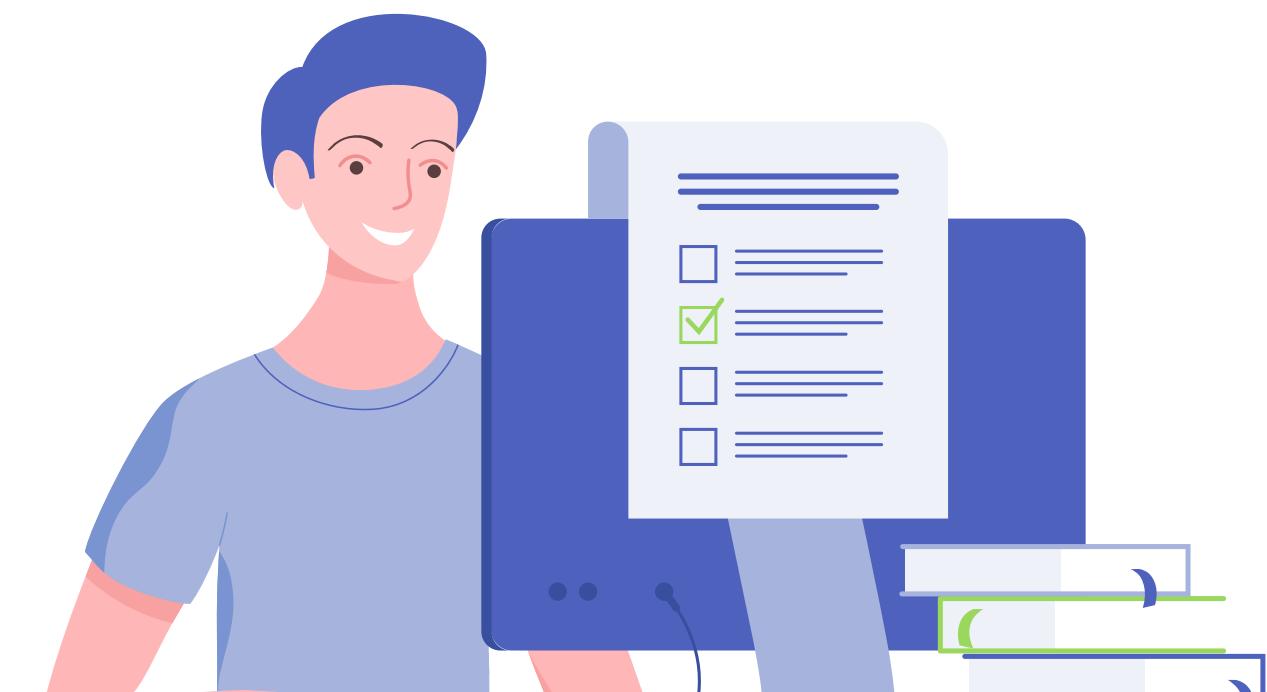




ABSTRACT

With the transition to online learning after the pandemic, educational institutions and hiring agencies have faced significant challenges in maintaining the integrity and authenticity of the examinations. The traditional proctoring methods rely on human supervisors, which is Time Consuming, difficult to scale, and often ineffective in detecting malpractice in remote settings. The lack of proper monitoring has led to an increase in unethical practices, compromising the fairness and accuracy of assessments.

Our goal is to provide a fair and ethical conduction of the examinations, we propose an AI-powered proctoring system that ensures secure, large-scale monitoring of online examinations. Includes advanced technologies such as computer vision, facial recognition, and audio analysis, our system can detect suspicious activities, unauthorized assistance, and abnormal behavior in real-time. This approach not only enhances the integrity of remote assessments but also reduces the reliance on human proctors, making the process more efficient, reliable, and scalable.





INTRODUCTION



In the digital era, remote assessments have become a crucial part for both academic examinations and corporate hiring processes. While online platforms provide convenience and accessibility, Educational institutions and hiring agencies alike struggle to monitor candidates effectively, as traditional human proctoring methods are limited in scale, prone to errors, and resource-intensive.

The absence of a robust monitoring system increases the risk of cheating, impersonation, and unauthorized assistance, leading to inaccurate evaluations of a student's knowledge or a candidate's true skills. Additionally, hiring agencies face difficulties in verifying the authenticity of assessments, making it harder to identify the most qualified candidates for the seat.

To address these challenges, we propose an AI-powered video proctoring system designed to enhance security, accuracy, and efficiency in remote assessments. Our system leverages computer vision, facial recognition, gaze tracking, voice analysis, and behavioral monitoring to detect suspicious activities, unauthorized access, and malpractices in real time and in recorded videos. By automating the proctoring process, this solution not only reduces the burden on human supervisors but also ensures that students, job applicants, and test-takers are evaluated fairly and transparently.

EXISTING MODELS

Several AI-powered proctoring systems are currently used by educational institutions and hiring agencies to monitor remote examinations.

MORE



HONORLOCK

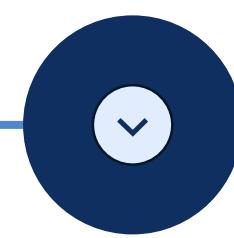


PROCTOR U

Uses AI-based automated monitoring with human proctors available for review.

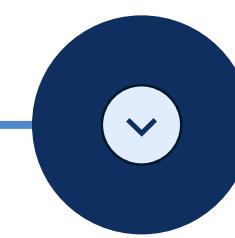


Proctor^U



MERCER METTL

Uses face recognition, browser lockdown, and keyboard/mouse activity tracking.



EXAMSOFT

Uses browser lockdown to prevent tab switching and screen recording.



PROPOSED MODEL



Multi-Model Cheating Detection



Integrates computer vision, audio analysis, and behavioral tracking for accurate fraud detection.

Scalability & Automation

Eliminates human dependency, enabling large-scale proctoring with real-time monitoring.

Comprehensive Cheating Detection

Integrates face, eye, object, and audio analysis, unlike existing systems that rely only on face tracking.

FEATURES

Face Detection

1.

Live – Face
Verification

Gaze Tracking

2.

Real Time Alerts

Head Movement

3.



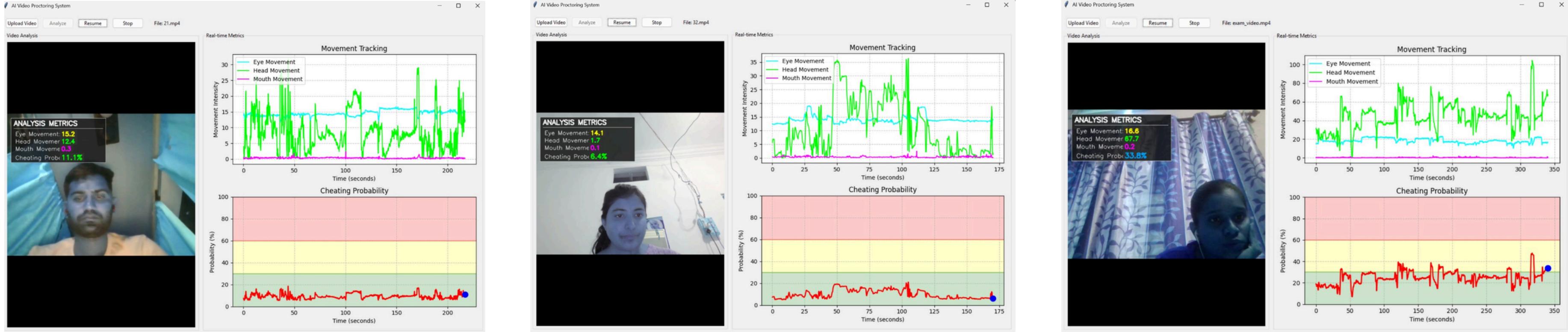
6.

Automated Cheat
Probability

**ONLINE
PROCTORING
SYSTEM**

know its features, Pros & Cons

TESTING & RESULT



20%

Candidate 21

15%

Candidate 32

50%

Candidate 47

TESTING & RESULT



20%

Candidate 9

15%

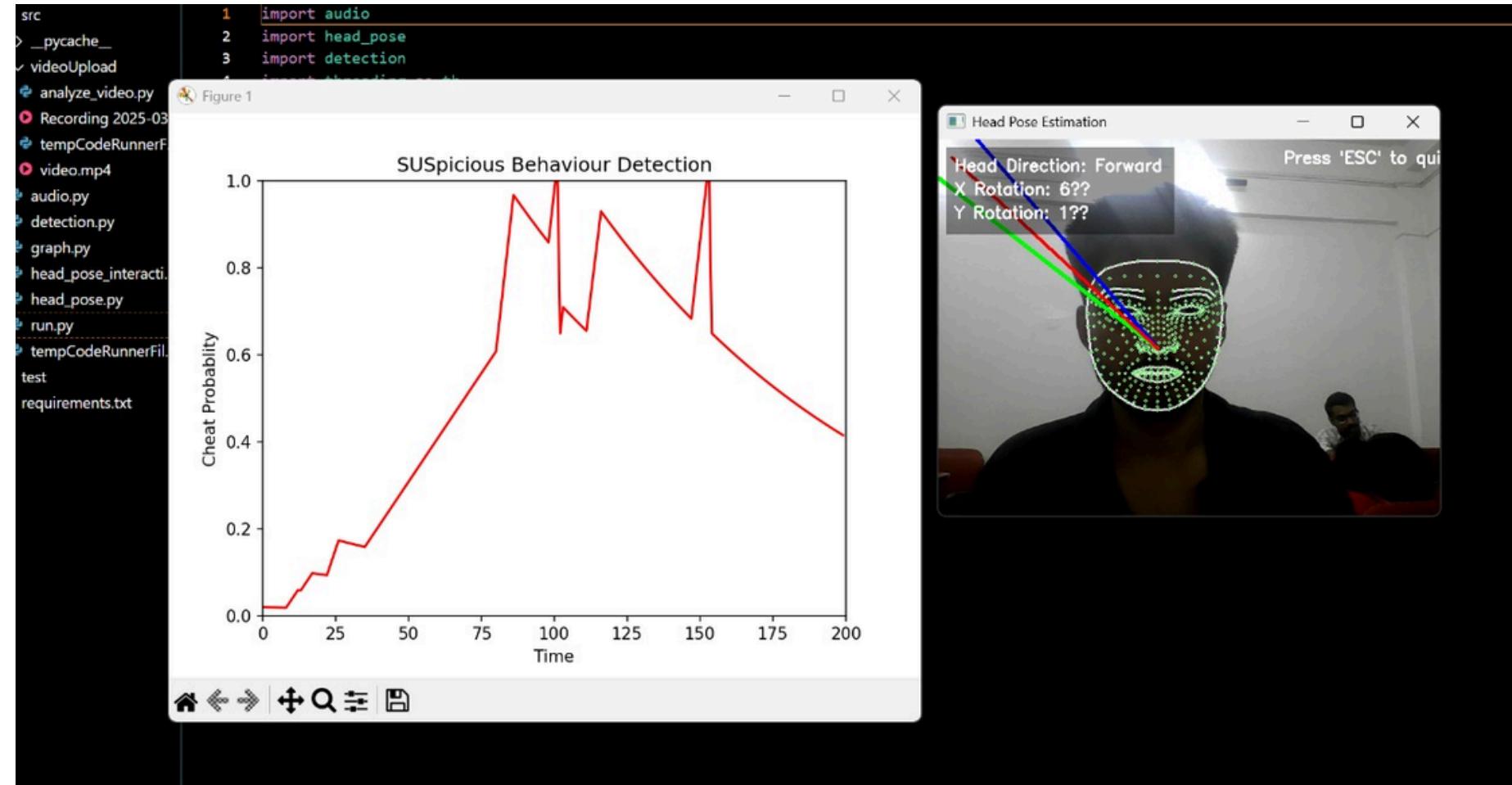
Candidate 26

40%

Candidate 3



PROVIDES REAL TIME CHEAT PROBABILITY DETECTION



Our AI-powered system provides real-time cheat probability scoring by continuously analyzing facial expressions, eye movement, head movement, and audio monitoring. The system assigns a risk score based on suspicious activities such as frequent gaze shifts, and whispering, ensuring that cheating attempts are flagged instantly. It also ensures Live-Face verification . With adaptive AI, the system learns from behavior patterns, reducing false positives and making assessments fairer and more authentic. Live monitoring and automated alerts allow proctors to focus on high-risk candidates, eliminating the need for constant manual supervision. Additionally, the system generates detailed post-exam reports with video evidence, allowing institutions to review flagged cases and maintain the integrity of remote assessments.



MARKETING OPPORTUNITY & INDUSTRY DEMANDS

Growing Market Demand

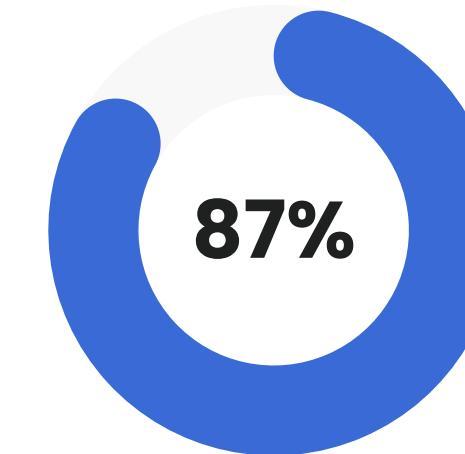
- ◆ Global Market Growth – The online exam proctoring market is projected to reach \$2.3 billion by 2027, growing at a CAGR of 18%.
- ◆ Rise in Remote Education – Over 1.5 billion students shifted to online learning during the pandemic, and hybrid learning continues to grow.
- ◆ Corporate Hiring & Certifications – Companies are conducting remote skill assessments to evaluate candidates efficiently.



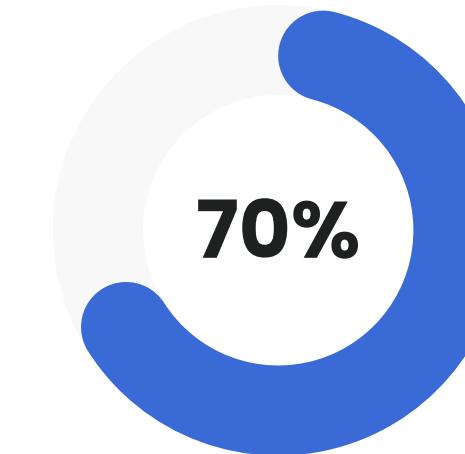


MARKETING PARTNERSHIPS & CLIENTS

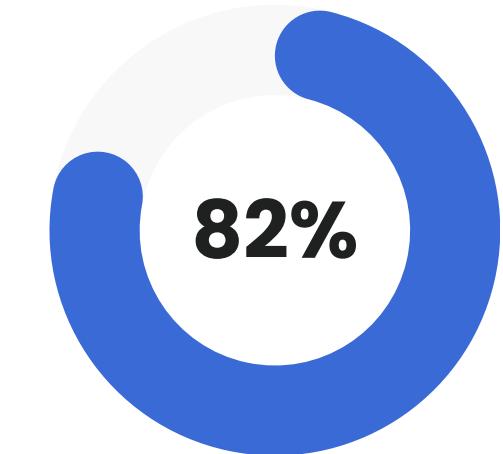
- ◆ Education Sector - Universities & schools adopting online exams (IITs, Harvard, MIT, Coursera, Udemy).
- ◆ Corporate Hiring & Recruitment - Companies using AI-based skill testing (Amazon, Google, Infosys).
- ◆ Professional Certifications - Exam bodies ensuring fraud-free certifications (AWS, Cisco, Microsoft).
- ◆ Government & Competitive Exams - Secure assessments for UPSC, SAT, GRE, GMAT, TOEFL.



Universities
Examination



Professional
Certifications



Corporate
Recruitment



REVENUE MODEL & MONETIZATION STRATEGY

- ◆ Subscription-Based SaaS – Institutions pay a monthly/yearly fee for access.
- ◆ Pay-Per-Exam Model – Organizations pay per student/exam session.
- ◆ Enterprise Licensing – Universities and businesses purchase a customized solution.
- ◆ Freemium Model – Basic features free, premium features require payment.





MARKET ADOPTION PLAN

1. Direct B2B Sales – Partnering with universities, ed-tech platforms, certification bodies, and corporate hiring agencies for bulk adoption.
2. Ed-Tech & LMS Partnerships – Integrate with Coursera, Udemy, LinkedIn Learning, and HR tech platforms to embed proctoring solutions.
3. SEO & Digital Marketing – Use targeted Google ads, LinkedIn outreach, YouTube tutorials, and content marketing to attract leads.
4. Webinars & Demos – Host live product demonstrations, industry webinars, and free trial sessions for universities and corporations.
5. Freemium & Trial Model – Provide limited free trials to institutions and hiring agencies to encourage adoption.
6. Academic Conferences & Expos – Showcase the product at ed-tech, cybersecurity, and HR summits to gain industry credibility.
7. Strategic Alliances – Collaborate with assessment platforms (Mercer Mettl, ProctorU), hiring tools (HireVue, Codility), and government agencies for large-scale adoption.
8. Localized & Multilingual Support – Expand reach by offering support in multiple languages to target global institutions.

THANK YOU

