



# AI powered Interview coach

## Smart Interview Evaluation using AI

Presented by: GEDDASRAVANI

Department: Computer Science & Engineering

# Introduction: Redefining the Interview Process

## Challenges of Traditional Interviews

- Relies heavily on human evaluators, leading to high time consumption.
- Subjectivity in assessment can lead to inconsistent and biased results.
- Candidates often lack opportunities for realistic and constructive practice.

## Our AI-Powered Approach



### Automated Questions

Consistent and fair questioning.



### Speech Recognition

Real-time analysis of verbal responses.



### Facial Behavior Analysis

Insights into non-verbal communication.



### Performance Evaluation

Objective, data-driven feedback.

# Our System Objectives

We are redesigning an AI system to revolutionize interview preparation by:

## Conducting Mock Interviews

Simulating realistic and challenging interview scenarios.

## Capturing Voice & Video Data

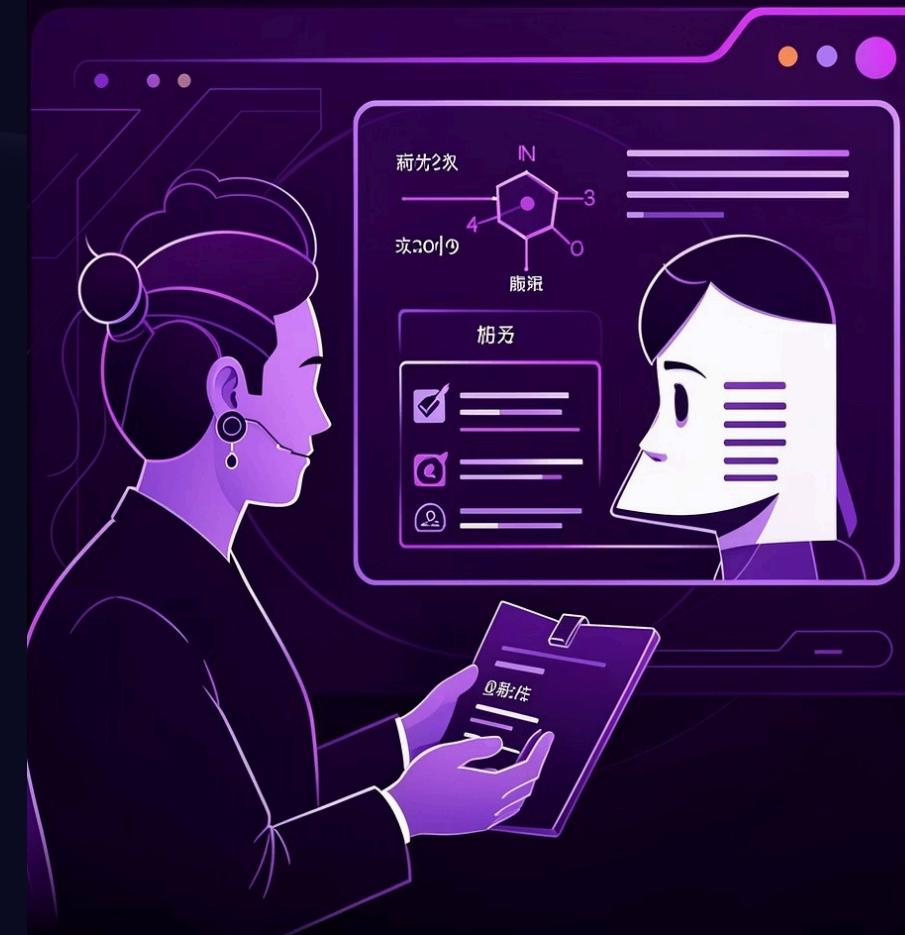
Recording comprehensive verbal and visual responses.

## Analyzing Expressions & Confidence

Evaluating non-verbal communication and emotional cues.

## Generating Performance Reports

Providing automated, objective, and detailed feedback.



# Problem Statement

Current interview practice tools often fall short in critical areas, hindering effective preparation and unbiased evaluation:



## Lack of Real-time Analysis

Traditional tools provide static feedback, missing dynamic adjustments needed during an interview.



## Absence of Behavioral Tracking

Key non-verbal cues and confidence indicators are overlooked, limiting holistic assessment.



## Inadequate Confidence Scoring

Subjective self-assessment or generic advice fails to provide measurable confidence insights.



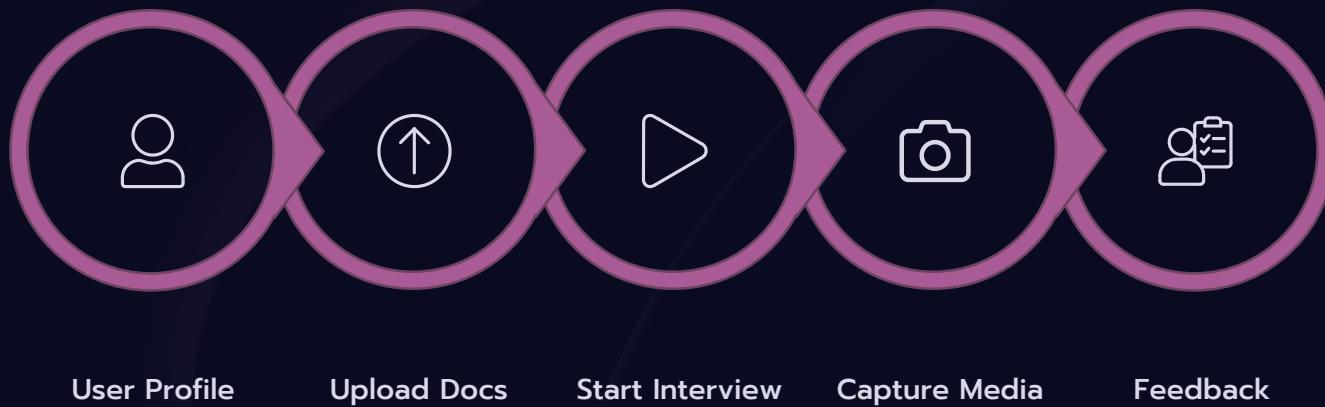
## Limited Automated Feedback

Manual reviews are time-consuming and inconsistent, delaying actionable improvement.

## Our Solution: An Intelligent AI Interviewer System

We propose an advanced AI-driven platform designed to overcome these limitations, offering a comprehensive and objective interview preparation experience through smart automation.

# System Workflow Diagram



This diagram outlines the sequential steps our AI interviewer system follows, from initial user setup to generating comprehensive performance feedback, ensuring a streamlined and objective evaluation process.

# Key Technology Components

## Backend Foundation

**Python** serves as the primary language for system logic, while **Flask** provides a lightweight framework for our API and server management.

## Dynamic Frontend & UX

Built with **HTML + CSS** for a responsive interface, our system incorporates **Live Video Streaming** to enable real-time mock interview experiences.

## Intelligent AI Processing

**OpenCV** handles facial and smile detection.

**SpeechRecognition** converts spoken words to text, and **pyttsx3** enables text-to-speech for interactive questioning.

## Efficient Multithreading

We implement **Multithreading** to ensure the system can efficiently handle concurrent processes, crucial for real-time audio and video analysis.

Our system leverages a robust stack of technologies, carefully selected for optimal performance, scalability, and user experience.

# System Modules



## Profile Module

Manages and stores all candidate-specific data, including historical performance and preferences.



## Interview Engine

Drives the mock interview flow, dynamically generating questions and managing the interaction sequence.



## Speech Module

Utilizes advanced speech-to-text algorithms to accurately transcribe candidate responses for analysis.



## Camera Module

Captures video input, focusing on facial expressions and non-verbal cues to assess candidate confidence.



## Evaluation Module

Processes all collected data, calculating scores and generating comprehensive performance feedback reports.

# Advantages & Applications

Our AI-powered interviewersystem offers significant benefits and can be applied across various scenarios to enhance efficiency and fairness.

## Key Advantages



### Automated Assessment

Streamlines evaluation, reducing manual effort and processing time.



### Real-time Analysis

Provides instant feedback on responses, enabling immediate learning.



### Time Savings

Significantly cuts down the time spent on traditional interview processes.



### Objective Scoring

Eliminates human bias with data-driven and consistent evaluation metrics.

## Diverse Applications



### Placement Training

Prepares students and job seekers for real-world interview scenarios.



### HR Screening

Aids HR departments in efficiently filtering candidates for various roles.



### Interview Practice

Offers a safe environment for candidates to refine their interviewing skills.



### Skill Evaluation

Objectively assesses specific technical and soft skills required for roles.

# Conclusion: Advancing the Interview Landscape

The AI Mock Interview System stands as a pivotal tool, reimagining how we approach interview preparation and evaluation.



## Realistic Practice

Simulates diverse interview scenarios for comprehensive preparation.



## Instant Feedback

Provides immediate, objective evaluation of performance.



## Enhanced Readiness

Empowers candidates to refine skills and boost confidence.



## Recruiter Support

Streamlines the initial screening process, aiding efficient talent acquisition.

## Future Scope

Our vision includes integrating advanced emotion detection for deeper behavioral insights and sophisticated NLP for granular answer grading, pushing the boundaries of AI-driven evaluation.



# THANK YOU

We appreciate your time and attention. We are excited about the future of AI in redefining the interview landscape.