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AI Smart Interview Coach: A Web-Based System for Automated Interview Preparation and Evaluation

Potala Bhargavi[1], Medaboina Gnapika[2], Maruvada Sai Harshitha[3], Seelam Chaitanya Sai[4], Kagitapalli Charan Sree Akhilesh[5], Onteddu Siva Ramakrishna[6]

[1, 2, 3, 4, 5] *Department of Computer Science and Engineering (AI&DS) Bonam Venkata Chalamayya Engineering College, Affiliated to JNTU Kakinada, Andhra Pradesh, India*

[6] *Project Guide, Department of Computer Science and Engineering (AI&ML), Bonam Venkata Chalamayya Engineering College, Affiliated to JNTU Kakinada, Andhra Pradesh, India*

Abstract: ***Students and job seekers who want to be successful in the hiring process must prepare for interviews. Static question banks, simulated interviews, and self-study resources are examples of traditional preparation techniques that frequently lack automated assessment and organized feedback. The AI Smart Interview Coach, a web-based tool that allows users to rehearse interview questions and get an automatic assessment using Natural Language Processing (NLP) techniques, is presented in this study. Users of the system can respond to interview questions from a variety of categories, including verbal, technical, aptitude, and HR. A rule-based NLP evaluation engine is used to assess user replies, producing scores and feedback through text preprocessing, tokenization, keyword extraction, and coverage ratio analysis. The responsive user interface is created using HTML, CSS, and Javascript, and the system is constructed using Python and the Flask framework for backend processing. The database used to store user information, interview questions, and assessment findings is SQLite. Additionally, the system offers a performance dashboard that monitors user tries and scores over several sessions. The findings of the experiment show that the suggested platform efficiently assesses user answers and offers helpful criticism, assisting users in becoming more prepared for interviews.***

Keywords: Artificial Intelligence, Natural Language Processing, Automated Evaluation, Interview Preparation System, Flask Web Application, SQLite Database

I. INTRODUCTION

Interview preparation is becoming a crucial part of professional development for students and job seekers due to the growing competition in the job market. Organizations frequently employ interviews to assess candidates' technical expertise, interpersonal skills, and problem-solving abilities. However, a lack of structured feedback and little practice cause many candidates to struggle during interviews. Conventional interview preparation techniques frequently entail reading interview questions from books or online or taking part in mentor-led mock interviews. These approaches offer some preparation, but they frequently lack automated review tools that can assist candidates in identifying the advantages and disadvantages of their answers. The creation of intelligent systems that can analyze user reactions and provide automated feedback has been made possible by the quick growth of web technology and artificial intelligence. Systems that mimic interview situations and efficiently assess candidate responses can be created by fusing web-based platforms with Natural Language Processing algorithms. The AI Smart Interview Coach is a web-based tool that lets users rehearse interview questions and get automatic feedback. Using keyword-based NLP approaches, the system assesses user replies and produces ratings and recommendations for enhancements.

A. Background And motivation

Organizations are depending more and more on organized interviews to choose qualified applicants due to the rising need for qualified specialists. Nevertheless, a lot of pupils don't have the chance to practice interviews prior to participating in actual hiring procedures. Although instructional content is now more easily accessible through online learning platforms, there are still few interview preparation programs that offer automated feedback. Numerous platforms now in use offer interview questions, but they don't assess candidates' answers or offer tailored feedback.

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The goal of the AI Smart Interview Coach system is to provide candidates with an easy-to-use platform where they may practice interview questions and get automated feedback using natural language processing. The goal of this system is to close the knowledge gap between theory and actual interview preparation.

B. Problem Identification

Even with the abundance of internet resources for interview preparation, there are still a number of obstacles. Many of the platforms that are currently in use just offer static interview questions without assessing candidates' answers. Because of this, users are unable to assess if their responses are accurate or contain crucial ideas that are anticipated in interviews.

Furthermore, human evaluators are necessary for typical mock interview systems, but they might not always be available. Additionally, manual evaluation might be unreliable and time-consuming. These drawbacks emphasize the necessity of an automated interview preparation system that can assess applicant answers and offer prompt feedback.

C. Research Objectives

The primary goal of this research is to create an intelligent platform for interview preparation that assesses applicant responses using natural language processing techniques**.** The specific objectives include:

1) To create a web-based interview preparation tool.
2) To use NLP approaches to implement automated answer evaluation.
3) To produce ratings and comments based on keyword matching.
4) To offer a dashboard for monitoring user performance.
5) To create a system design that is both user-friendly and scalable.

D. Project Scope

This project's main goal is to provide a web-based platform for interview preparation that lets users practice questions and get automatic feedback. User registration, practice interview questions, response submission, automated evaluation, and performance tracking are just a few of the features offered by the system. The technological implementation includes database administration with SQLite, backend processing with Python and Flask, and frontend creation with web technologies.

E. Organization of the Paper

The remainder of this paper is organized as follows. The literature overview on NLP-based evaluation methods and interview preparation tools is presented in Section II. The system architecture and design of the suggested platform are covered in Section III. The system implementation and evaluation findings are described in Section IV. System constraints and difficulties are covered in Section V. The conclusion and future work are presented in Section VI.

II. LITERATURE REVIEW

Artificial intelligence and natural language processing have been used in a number of studies to investigate automated text evaluation systems. In educational technology, automated essay grading systems are frequently used to evaluate student answers and assign points based on linguistic characteristics.

Tokenization, part-of-speech tagging, and semantic analysis are only a few of the NLP methods Jurafsky and Martin [1] covered for handling textual data. Automated text evaluation systems are built on these methods. The Natural Language Toolkit (NLTK) framework for Python was introduced by Bird et al. [2] and enables developers to effectively process and analyze textual data. Tokenization and keyword extraction are two NLP techniques that have shown promise in the analysis of brief textual answers.

Other studies have investigated machine learning-based assessment models that score essays using deep learning algorithms or neural networks. These methods need substantial computer resources and big training datasets, despite their great accuracy.

For the analysis of brief descriptive responses, such those from interviews, rule-based NLP assessment approaches offer a more straightforward and effective method. To assess the quality of an answer, these systems use idea identification and keyword matching.

In order to provide a scalable and lightweight platform for interview preparation, the proposed AI Smart Interview Coach system combines web technologies with a rule-based NLP methodology.

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A. *Comparative Analysis of Existing Interview Preparation Methods*

Table I: Comparison Of Traditional Interview Preparation Methods And The Proposed Ai Smart Interview Coach System

Feature	Traditional Interview Preparation Methods	AI Smart Interview Coach System
Interview Practice	Candidates practice using books, websites, or mock interviews with limited feedback.	Users can practice interview questions interactively through a web-based platform.
Answer Evaluation	Evaluation is usually manual and depends on mentors or trainers.	Answers are automatically evaluated using NLP-based keyword analysis.
Feedback Mechanism	Feedback may not always be available or may take time from mentors.	Instant feedback and suggestions are generated automatically after answer submission.
Performance Tracking	Candidates cannot easily track their progress over multiple practice sessions.	Dashboard displays attempts, scores, and performance statistics.
Accessibility	Practice opportunities may depend on mentors, coaching centers, or interview workshops.	Users can access the system online anytime and practice interviews from anywhere.
Learning Efficiency	Limited opportunities for repeated practice and structured evaluation.	Continuous practice with automated scoring improves learning efficiency.
Interview Simulation	Real interview simulations are difficult to arrange frequently.	System provides simulated interview questions and evaluation in a digital environment.

III. SYSTEM ARCHITECTURE AND DESIGN

A. *High-Level System Architecture*

The A three-tier web architecture is used in the proposed AI Smart Interview Coach to guarantee the system's scalability, maintainability, and modularity. Presentation Layer, Application Layer, and Database Layer are the three primary layers that make up the architecture. The system's various components can function independently while still effectively communicating with one another because to this layered structure.

The system's user interface is represented by the Presentation Layer, which is created with web technologies including HTML, CSS, and Bootstrap. By offering features like user registration, login, practice interview questions, response submission, and performance tracking, this layer enables users to engage with the platform. In order to make it easy for users to traverse the site and access various interview preparation options, the user interface is made to be straightforward and intuitive.

The Flask web framework and Python are used to create the Application Layer, which houses the system's essential logic. This layer handles user requests, controls interview questions, evaluates responses using Natural Language Processing methods, and produces scores and feedback. By managing data processing and transmission, the application layer serves as a link between the database and the user interface. All system data is managed and stored by the database layer. SQLite is the relational database management system used by the system. User accounts, interview questions, keywords used to evaluate answers, and user performance outcomes are among the structured data stored in this database. SQLite is appropriate for web-based applications since it offers efficient and lightweight data storage.

Because the user interface, application logic, and data storage components are kept apart by the layered architecture, the system will be simpler to maintain, adapt, and expand in the future.

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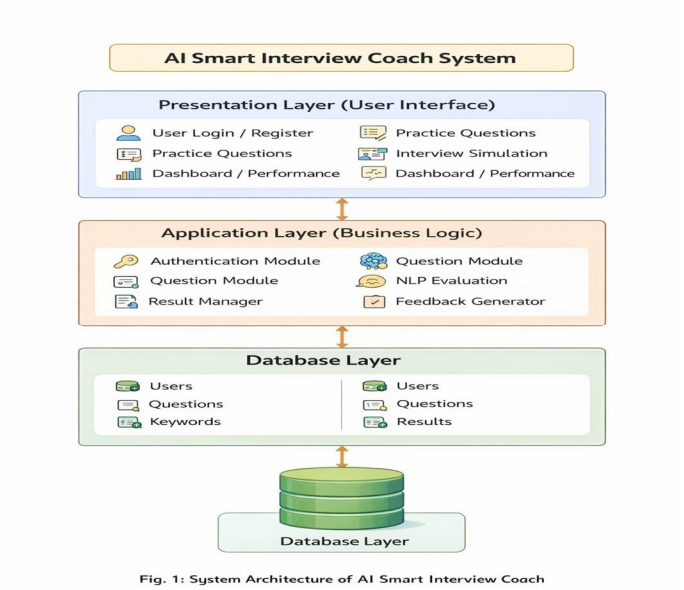


Fig. 1: System Architecture of AI Smart Interview Coach

Fig. 1: System Architecture of Ai Smart Interview Coach

B. Functional Modules

The AI Smart Interview Coach system consists of several functional modules that support interview preparation and evaluation. Each module performs specific tasks that contribute to the overall functioning of the system.

1) User Authentication Module: User login and registration procedures are handled by the User Authentication Module. In order to securely use the interview preparation platform, users can create accounts by entering their basic information. The module guards against illegal access to the system and guarantees that user credentials are safely kept in the database

2) Interview Practice Module: Users can try interview questions from several categories, including technical, aptitude, verbal, and HR questions, using the Interview Practice Module. Interview questions are retrieved from the database by the system and presented to users via the web interface.

3) Answer Evaluation Module: The Answer Evaluation Module analyzes user responses using methods from Natural Language Processing. To ascertain whether the user response includes the anticipated concepts, the system uses text preprocessing, tokenization, and keyword matching. The system computes a score and provides feedback based on the keyword coverage ratio.

4) Feedback Generation Module: Based on the evaluation's findings, the Feedback Generation Module offers recommendations and remarks. The algorithm finds any missing keywords or essential ideas in the user's response and provides suggestions to help the user improve it.

5) Performance Dashboard Module: Users can access comprehensive information about their interview practice progress using the Performance Dashboard Module. Statistics like total attempts, average score, best score, and practiced categories are shown on the dashboard. This enables users to track their progress over time and pinpoint areas that need more practice.

C. Technology Stack

Table II: Technology Stack Used In Ai Smart Interview Coach

Layer	Technology	Purpose
Frontend	HTML, CSS, JavaScript	User interface development
Backend	Python Flask	Application logic and request handling
Programming Language	Python	System implementation
Database	SQLite	Data storage and management
Development Tools	VS Code	Application development
Communication	HTTP Requests	Interaction between frontend and backend

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D. Database Design

To guarantee organized data storage and effective administration, the AI Smart Interview Coach system's database design adheres to a relational data paradigm. A number of important entities, including Users, Questions, Keywords, and Results, are included in the database.

The username, email address, and password of registered users are stored in the Users database.

Interview questions sorted by type, such as technical or HR questions, are stored in the Questions table.

For the purpose of evaluating answers, the Keywords table includes significant keywords related to each topic.

Evaluation ratings and comments produced for every user attempt are kept in the Results database.

The system's ability to effectively retrieve interview questions, assess responses, and record performance data is ensured by the relationships between these entities.

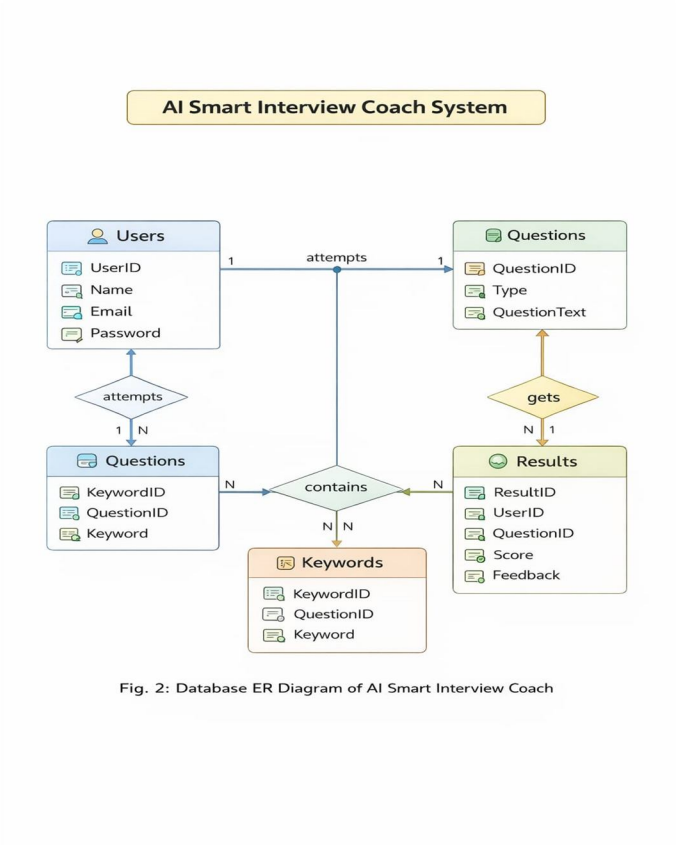


Fig. 2: Database ER Diagram of AI Smart Interview Coach

Fig. 2: Database ER Diagram

IV. EVALUATION AND RESULTS

Fun Functional testing and user interaction analysis were used to assess the suggested AI Smart Interview Coach system and confirm that the platform operated correctly. The home interface, learning modules, practice test section, and performance dashboard are among the main system modules that are the subject of the evaluation.

The system's successful integration of the front-end interface with the Python Flask-developed backend server was verified through testing. The SQLite database is used to accurately store and retrieve all user data, interview questions, and evaluation findings.

A. User Home Page

The AI Smart Interview Coach platform's home page serves as its main user interface. Users are taken to the main page after successfully logging in, where they can access various system modules.

Progress & Dashboard, Learn Courses, Practice Exams, Attempt Interviews, FAQ & Resources, and Company Interview Questions are just a few of the options offered by the UI. With the help of these modules, users can begin practicing interview questions and use the platform with ease.

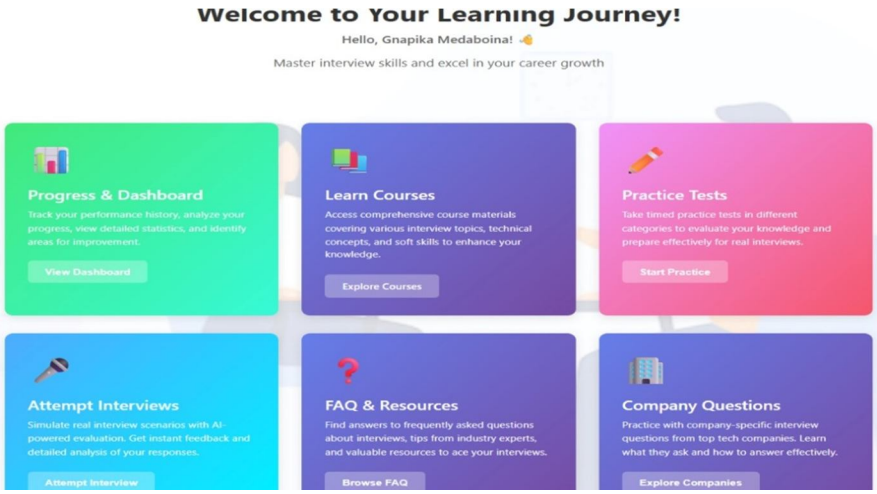


Fig. 3: User Homepage Interface

B. Learning Courses Interface

Users can improve their technical knowledge needed for interviews by using the Learning Courses module's structured learning tools. Courses on subjects like SQL & Databases, Java Fundamentals, and Python Programming are included in this module.

In order to assist users grasp fundamental programming ideas and efficiently prepare for technical interviews, each course includes a list of crucial interview-related subjects.

Before undertaking interview practice sessions, users can examine technical ideas using this module, which functions as a learning assistance system.

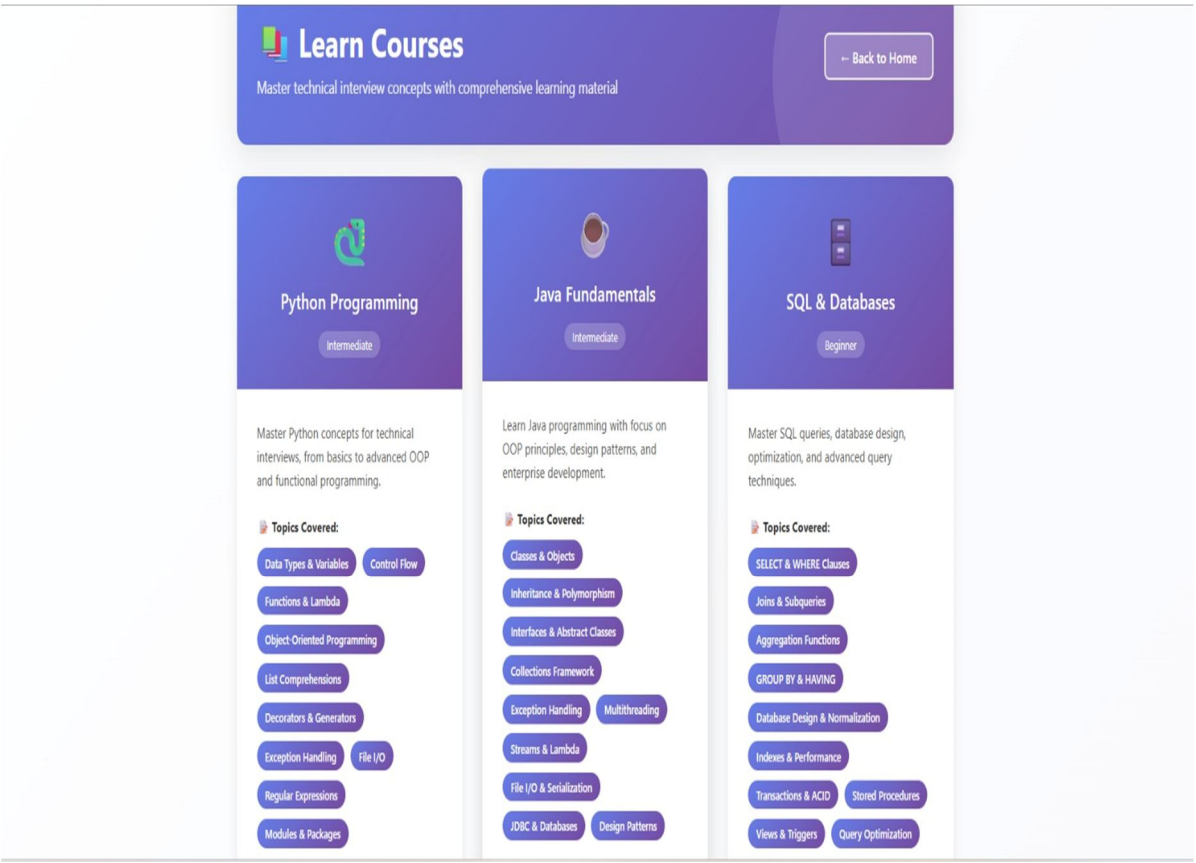


Fig. 4: Learning Courses Interface

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C. Practice Test Interface

Users can practice interview questions in a variety of categories, such as aptitude, verbal ability, HR interviews, and technical questions, using the Practice Test module.

Users can choose a certain category and try questions pertaining to that field. The system logs user responses and uses the backend's NLP-based evaluation mechanism to assess them.

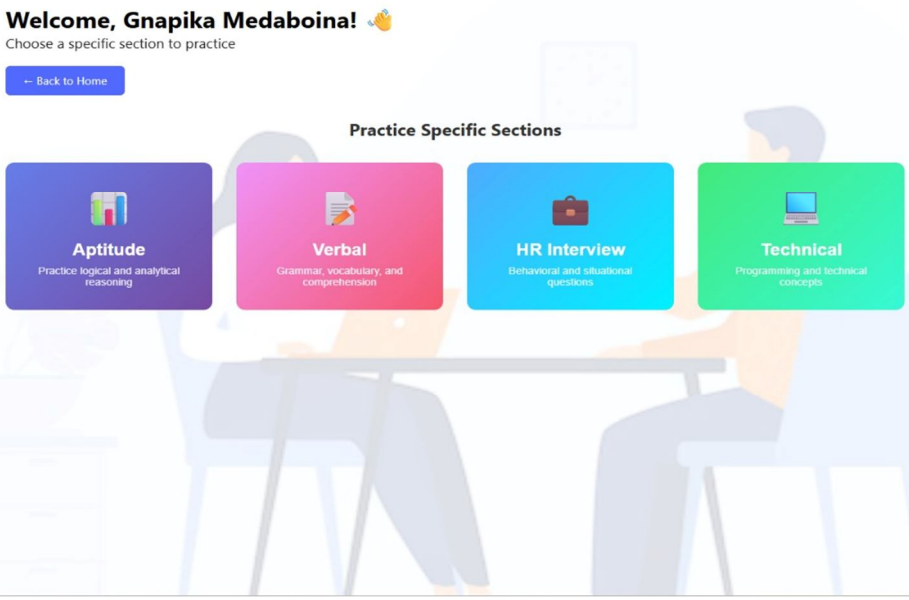


Fig. 5: Practice Test interface

D. Dashboard Interface

The Dashboard module provides users with an overview of their interview practice performance. It displays important metrics such as:

- Total number of interview attempts
- Average score achieved
- Best score obtained
- Categories practiced

The dashboard also provides quick insights and suggestions that encourage users to continue practicing and improving their interview performance.

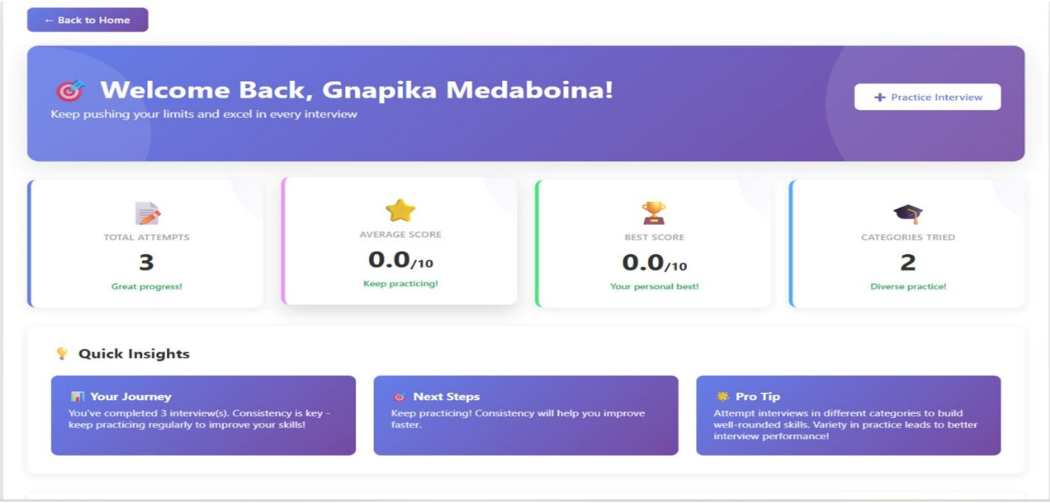


Fig. 6: User Dashboard Interface

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E. Functional Testing

To confirm that all of the main components of the AI Smart Interview Coach system function properly, functional testing was carried out. To guarantee correct operation and backend database integration, each module was independently tested.

Table III: Functional Testing Results Of The Ai Smart Interview Coach

Test Scenario	Module Tested	Result
User Registration	User Module	Passed
User Login	Authentication Module	Passed
Home Page Navigation	Interface Module	Passed
Interview Question Display	Interview Module	Passed
Answer Evaluation	NLP Evaluation Engine	Passed
Score Generation	Evaluation Module	Passed
Dashboard Statistics	Performance Module	Passed
Database Operations	SQLite Database	Passed

F. Usability Observation

By seeing how users engage with the system while rehearsing interview questions, the AI Smart Interview Coach platform's usability was assessed. The findings showed that users had little trouble navigating the platform and finishing interview preparation sessions.

An enhanced user experience is a result of the well-organized modules, automatic feedback system, and user-friendly interface. Through the dashboard interface, users can easily access interview questions, submit responses, and examine the evaluation results.

All things considered, the built system effectively illustrates a web-based interview preparation platform that facilitates performance monitoring and automatic answer evaluation.

V. DISCUSSION AND LIMITATIONS

Using web technology and natural language processing methods, the AI Smart Interview Coach platform was created to offer an automated interview preparation environment. The system incorporates several modules, such as performance monitoring, practice exams, interview assessment, and educational materials. The evaluation's findings show that the platform effectively gives consumers an organized interview preparation experience.

However, during the system's development and testing, a few restrictions and difficulties were noted. These elements are covered in the sections that follow.

A. System Performance

When it comes to processing user requests and presenting interview questions via the web interface, the AI Smart Interview Coach system works effectively. User input is successfully processed by the Python Flask backend, which also interacts with the SQLite database to store and retrieve user data.

During testing, the system produced evaluation results and handled several interview practice attempts with consistent performance. The system's modular design enables the platform to efficiently handle user data and interview questions.

B. Answer Evaluation Accuracy

With this approach, predetermined keywords kept in the database are compared with the terms found in the user's response.

Although this method is useful for detecting significant concepts in responses, the evaluation accuracy may differ if users give accurate answers using synonyms or different terminology that isn't included in the list of keywords. Because of this, even if the response is conceptually right, the algorithm may occasionally give a lower score.

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C. User Experience

To guarantee a clear and responsive design, HTML, CSS, and Javascript are used in the platform's user interface design. Easy access to several modules, including learning courses, practice exams, and the performance dashboard, is provided by the main page.
Users had little trouble interacting with the system during usability testing. The user experience is enhanced and users are able to concentrate on interview preparation chores thanks to the well-organized interface and distinct module structure.

D. Data Management

The system stores user data, interview questions, keywords, and evaluation outcomes in a SQLite backend database. SQLite offers an effective and lightweight database solution that is simple to integrate with Python programs.
SQLite may encounter difficulties when managing very large datasets or a high number of concurrent users, despite being appropriate for small to medium-sized applications. More scalable database systems might be needed in these situations.

E. Challenges and Potential Improvements

Table IV: Challenges And Potential Improvements For The Ai Smart Interview Coach

Challenge Area	Description	Possible Improvement
Keyword-Based Evaluation	System evaluates answers based on keyword matching which may miss synonyms or alternate explanations	Implement semantic analysis using NLP techniques such as word embeddings
Limited Question Dataset	Current database contains a limited set of interview questions	Expand the question bank with more technical and behavioral interview questions
Text-Based Evaluation Only	System evaluates only typed responses	Integrate speech recognition to support voice-based interview practice
Lack of Context Understanding	Evaluation engine cannot fully understand sentence context	Apply machine learning or transformer-based NLP models
Limited Personalization	System provides general feedback rather than personalized learning suggestions	Implement AI-driven recommendation systems for targeted practice

VI. CONCLUSION AND FUTURE WORK

Through automated evaluation and structured practice modules, the AI Smart Interview Coach system was created as a web-based platform to help students and job seekers improve their interview preparation. The system creates an interactive learning environment where users may practice interview questions and get feedback on their answers by fusing natural language processing techniques with contemporary web technology.
Learning courses, practice exams, interview simulations, and a performance dashboard that monitors user advancement are just a few of the modules offered by the platform. Together, these sessions offer a whole interview preparation experience. The system architecture guarantees effective communication between the SQLite database used to store user data and evaluation results, backend processing modules, and the frontend interface.
It was discovered through system testing and evaluation that the platform effectively carries out essential features such presenting interview questions, evaluating user responses, producing scores, and storing data for performance monitoring. Users are encouraged to improve their responses through repeated practice and are assisted in identifying concepts that are lacking from their responses by the automatic feedback process.

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The platform shows the promise of integrating Natural Language Processing techniques to enhance interview preparation and skill development, even though the current implementation concentrates on keyword-based evaluation.

A. Conclusion

The AI Smart Interview Coach combines web technologies with NLP-based answer evaluation to offer an efficient automated interview preparation solution. Users can practice interview questions in a variety of categories using the system, and they can get instant feedback on their answers.

The system's user-friendly interface enhances accessibility for students getting ready for interviews, and its modular architecture guarantees scalability and maintainability. The platform helps users boost their confidence and interview skills by offering structured learning tools and performance tracking via a dashboard.

All things considered, the built system shows how technology may be utilized to produce intelligent educational tools that aid in skill development and career preparation.

B. Future Work

Even while the current system offers a useful platform for interview preparation, there are a number of improvements that might be made to it in further iterations. Adding sophisticated Natural Language Processing methods that examine semantic meaning instead than just keyword matching is one possible enhancement. This will enable the system to identify synonyms and other sentence forms while also increasing the accuracy of answer evaluation. Adding speech-based interview simulations, which allow users to respond to interview questions orally, is another potential improvement. A more authentic interview setting might be created by using speech recognition technology to translate spoken answers into text for assessment. Additionally, machine learning algorithms that learn from past user replies and offer tailored feedback might be added to the system. This would enable the platform to suggest practice questions in accordance with the user's performance. To enable users to practice interview questions at any time and from any location, a mobile application version of the platform might also be created. The platform's efficacy could be further enhanced by adding more company-specific questions to the database of interview questions. The AI Smart Interview Coach would become a more sophisticated and all-encompassing interview preparation tool with these upcoming enhancements.

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BIOGRAPHIES OF AUTHORS



Potala Bhargavi is a B.Tech student in Computer Science and Engineering (Artificial Intelligence & Machine Learning) at Bonam Venkata Chalamayya Engineering College, Odalarevu, India, and is expected to graduate in 2026. She completed her Intermediate education at Narayana Junior College, Visakhapatnam, and her secondary education at A.M.G Res School, Bheemunipatnam. She has a strong interest in Artificial Intelligence and Machine Learning and continuously explores advancements in intelligent systems and modern technologies. She has knowledge of programming languages such as Python and Java, along with web development technologies including HTML, CSS, JavaScript. She is passionate about developing innovative software solutions and actively improves her technical knowledge through projects, internships, and continuous learning in emerging technologies.
Email: bhargavipotala@gmail.com



Medaboina Gnapika is a B.Tech student in Computer Science and Engineering (Artificial Intelligence & Machine Learning) at Bonam Venkata Chalamayya Engineering College, Odalarevu, India, and is expected to graduate in 2026. She completed her Intermediate education at Sri Chaitanya Junior College and her secondary education at Ravindra Bharathi EM High School. She has a strong interest in Artificial Intelligence and Machine Learning and is enthusiastic about learning emerging technologies in the field of computer science. She possesses skills in Python and ServiceNow. She is passionate about developing her technical knowledge and applying modern technologies to build efficient and innovative software solutions.
Email: gnapikamedaboina1545@gmail.com



Maruvada Sai Harshitha is a B.Tech student in Computer Science and Engineering (Artificial Intelligence & Machine Learning) at Bonam Venkata Chalamayya Engineering College, Odalarevu, India, and is expected to graduate in 2026. She completed her Intermediate education at Sri Chaitanya Junior College and her secondary education at Bhashyam Public School. She has a strong interest in Artificial Intelligence and modern computing technologies and is continuously learning new advancements in the field. She has basic technical skills in Python programming and web development technologies such as HTML and CSS. She is enthusiastic about improving her technical knowledge and applying her skills to develop practical and innovative software solutions.
Email: harshithamaruvada479@gmail.com

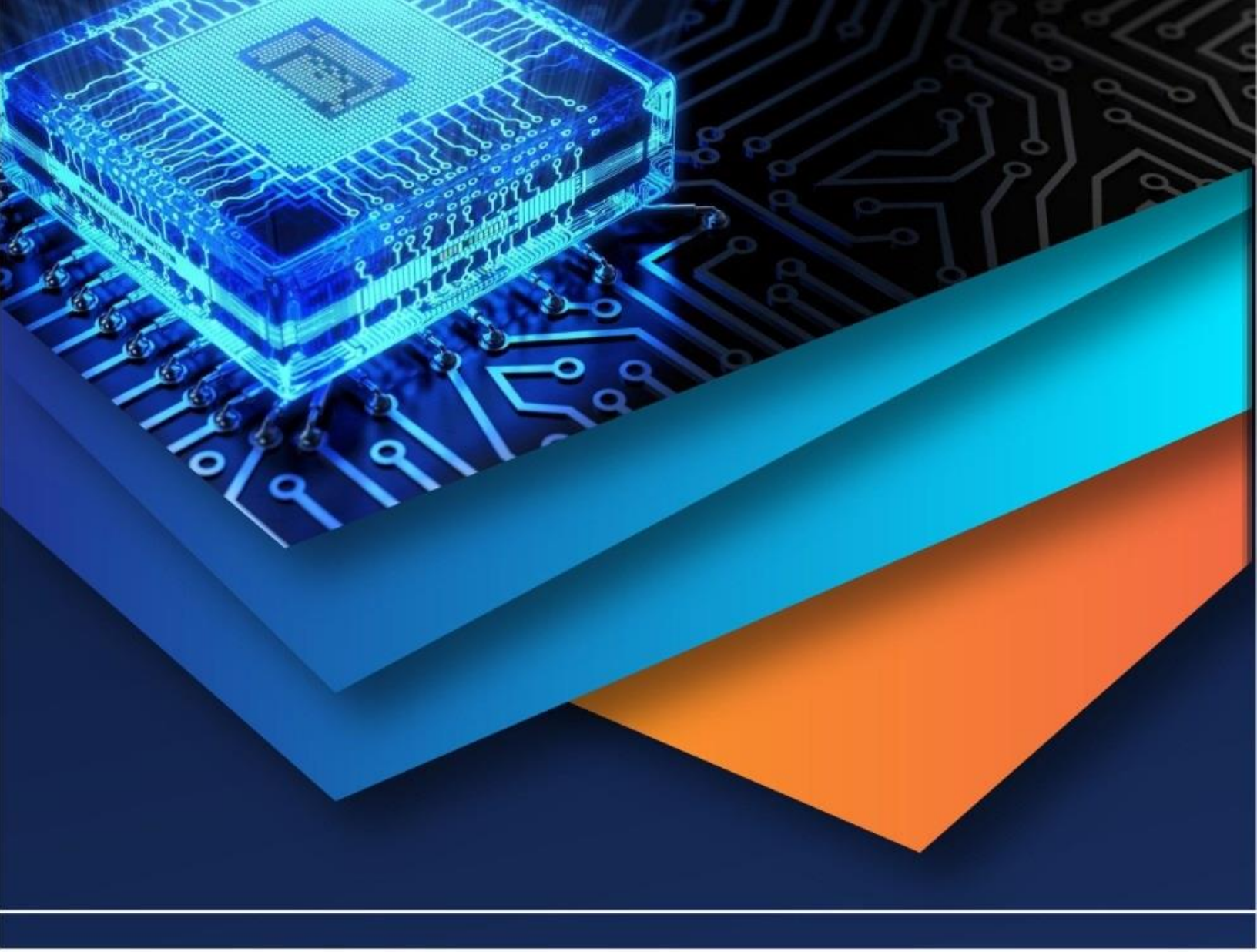


Seelam Chaitanya Sai is a B.Tech student in Computer Science and Engineering (Artificial Intelligence & Machine Learning) at Bonam Venkata Chalamayya Engineering College, Odalarevu, India, and is expected to graduate in 2026. He completed his secondary education at Aditya English Medium High School and his Intermediate education at Sri Chaitanya Junior College. He has a strong interest in Artificial Intelligence and modern computing technologies and is continuously exploring advancements in the field. He possesses skills in Python, Machine Learning, and Java. He is passionate about learning programming and emerging technologies in computer science. He aims to develop innovative and efficient software solutions through continuous learning and practical experience.
Email: scsai2004@gmail.com

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	**Kagitapalli Charan Sree Akhilesh** is a B.Tech student in Computer Science and Engineering (Artificial Intelligence & Machine Learning) at Bonam Venkata Chalamayya Engineering College, Odalarevu, India, and is expected to graduate in 2026. He completed his secondary education at Bhashyam English Medium School and his Intermediate education at Sri Chaitanya Junior College. He has a strong interest in programming and software development, with skills in Java, SQL, C, HTML, and CSS. He is passionate about enhancing his technical knowledge and applying these technologies to develop efficient and innovative software solutions. Email: charansriakhilesh7@gmail.com
	**Siva Ramakrishna Onteddu** is an Assistant Professor in the Department of Artificial Intelligence and Machine Learning (AI & ML) at Bonam Venkata Chalamayya Engineering College, Odalarevu, India. He holds an M.Tech degree in Artificial Intelligence and Machine Learning. His areas of interest include Artificial Intelligence, Machine Learning, Data Science, and Web Technologies. He has published a research paper titled “Secure and Efficient Method for Hidden Objects Crawling in Web Search Interface by KNN Queries” in the International Journal of Research (Volume 5, Issue 15, May 2018). He actively guides undergraduate students in academic projects and research activities. He is committed to encouraging innovation and technical development among students. Email: onteddusiva2@gmail.com ORCID: https://orcid.org/0009-0005-5179-5311

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