International Journal of
DATA SCIENCE AND IOT MANAGEMENT SYSTEM
ISSN: 3068-272X www.ijdim.com Original Research Paper

Virtual AI-Driven Interview Preparation Assistant

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Abstract **-** Many People think that job interviews are often difficult because they need knowledge in both technical and effective communication skills. Whereas the conventional interview coaching depends on the human input, development in artificial intelligence (AI) have made it possible for the automated systems to offer the individualized coaching and real-time behavioural analysis. This project presents a virtual job interview training system based on the Generative Adversarial Networks (GANs), which provides users with AI-driven feedback to improve their interview performance. The system makes interview preparation more organized and make user to practice according to their job description approachable by utilizing machine learning models to identify behavioural flaws and recommend fixes. Mock interviews were often used in a mixed-methods pilot study to assess the system's efficiency. Based on user and system interactions, participants received AI-generated feedback with ratings, and the system's effect on interview readiness was assessed by analyzing the user answers.

Keywords**:** Artificial Intelligence(AI), Mock Interview, Web Integration, Question Generation, Performance Rating, Real- time Feedback, Natural Language Processing(NLP), Generative Adversarial Network (GAN), Speech-to-Text, RESTful API, Next js.

I. INTRODUCTION

As the job market becomes highly competitive, the candidates are constantly seeking innovative ways to enhance their interview preparation to get the job. As in [1] Daryanto, T., Ding, X, Stil, S., Knutsen, K. M., & Rho, E. H. (2024) Created conversate Interactive Simulation and Dialogic Feedback to Encourage Reflective Learning in Interview Practice. AI mock interviews have resulted as a transformative tool which replaces traditional interview, [2] Li, M., Song, Y., Zhang, & Yan, R. (2023). Interviewer Developed a Mock Interview Generator to Enhance Job Interview Performance combining advanced technologies like Natural Language Processing(NLP), Deep learning and machine learning to provide realistic and personalized practice experiences for the users,[3] Heimerl, A., Mertes, S., Becker, L.,P., & André, E.(2022) Suggested a GAN based online job interview this helps to complete the objective and these AI interview platforms are not only mimicking various interview scenarios but also offers valuable feedback [4] Ashrafi, N., Vona, F., Ringsdorf, C., Hertel, C., Toni, L., & Voigt-Antons, J.- N.(2024) Employed AI-Driven metahuman avatars to generate interview preparation that helps users in refining their skills and boost their confidence.[5] Nag, Y. M. N., Gokul, D., Shashank, L., & Chowdary, L. K. (2024) Introduced AI-Driven mock interview with the ability to tailor the sessions to specific roles and analyse performance metrics in optimizing application materials,[6] Nag, Y. M. N., Gokul, D., Shashank, L., & Chowdary, L. K. (2024) Build an AI mock interviews are used in revolutionizing the way job seekers prepare for the success in their careers.[7] Jijabrao, B. B., Mahendra, S. R., Patil, P. R., & Dilip, P. P. (2024)Introduced AI solution as many organizations and fields are continue to adopt these technologies and understanding their functionalities and benefits which becomes essential for anyone looking to resolve the complexities of the modern job scenarios. [8] Thakur, K. D., Sonawane, P. L., Derle, J. T., Chavan, P. S., & Sathe, R. S. (2024) Developed Evaluator to review preparedness where Candidates must balance both technical knowledge and effective communication skills during job interviews,[9] R, S., and S, N.(2025) Offered a virtual interview stimulator which are important for their career opportunities. Other than this, a lot of job searchers experience the interview anxiety, low self-esteem, and the trouble expressing themselves

clearly. [10] Patel, M., and Singh, B. (2024) Emphasized AI- based chatbots for enhancing interview performance. In order to evaluate candidates' performance in both verbal and nonverbal behaviours,[11] Nirgide, S. V., Sayyed, S. V., & Pathan, M. F. M. (2024) Cnstructed an AI-driven system to analyse and this project is best that presents a virtual job interview training system nothing but a virtual mock interview system based on Generative Adversarial Networks (GANs). [12] Suryawanshi, P. S., & Patil, R. S. (2024) Analysed different AI-based mock Interview systems and their success rate. The Project makes interview preparation more organized and make user to practice according to their job description approachable by utilizing machine learning models to identify behavioural flaws and recommend fixes. .Mock interviews were often used in a mixed-methods pilot study to assess the system's efficiency. This paper has been organised as follows: Section 2 covers the proposed solution. Section 3 includes Literature Survey. Section 4 depicts about the Existing solution and result. Section 5 depicts about the Conclusion. Section 6 depicts about testing and validation and section 7 covers conclusion and future scope.

II. LITERATURE SURVEY

The AI software for preparing for the interview has gained popularity mainly because it mimics a real interview scenario, offering personalized feedback:[13] Kumar, A., & Sharma, R. (2025) This could be so because our team proposed that the system should be AI-based, or simulate the interview. It can expose the candidate to a set of real-like events with pauses at the dire moment for feedback in real-time. Hence, the whole process sounds very manual and is far much from AI ease of use. These came out as AI Learning Based Systems as [14] Mishra, P. K., Arulappan, A., & Ra, I. (2024) They gave automated engineers how to save time for the AI-guided feedback. In the AI-based interview system, methods of ensemble learning have also been utilized more and more by various algorithms pooling multiple predictions to increase the accuracy of the prediction[15] Kumar, S., & Patel, M. (2025) Introduced an AI-Powered Mock Interview Platform: They have been applied in the same vein to event management systems that typically utilize certain events to recommend a quality and literacy of the system. In this sense, they can augment candidate assessment end to end in interview preparation systems. [16] The Design of an AI-Assisted Mock Interview and Feedback System across the Company- Distinguishes and Gives Approximate Weightage of Attributes (2025). In a variety, it is a tool that would most help with automated feedback to provide supported feedback, to give a fair evaluation of the candidates' strengths and weaknesses. Besides ensemble models, there is another powerful scheme for manufacturing a greater R., & Verma, A. (2024) For the AI Powered Mock Interview Generator. AI-Powered Mock Interviews: A New Era in Preparing Candidates. Computer and Communication Engineering: An International Journal of Advanced Research. A new era in candidate preparation [18] Kumar, R., & Mehta, S. (2024) Introduction of the AI-Prep Mat AI-Assisted Mock Interview and Feedback System, e.g., speech recognition, facial expressions, and text analysis. Feature fusion helps the system in accessing the information gathered from different features used to enhance the system's overall performance, therefore leading to even more accurate feedback of the users by combining the insights of various learning models to evaluate more accurately the candidate's performance. [19] MimiTalk: Built An AI-Powered Automated Interview Platform for Social Science Research (2025) For instance, by combining speech recognition and facial recognition, it can provide insights on a candidate's emotional state as well as the way they communicate, and so enable them to enhance both verbal and non-verbal communication during an interview. Also embedded in the AI-led interview- preparation website are recommendation systems that provide professional content or scenarios to be simulated at the request of users. Just like how chains like VGG16 in combination with AlexNet have been used in an ensemble architecture for other tasks related to encouraging promising performance, AI systems should be put into use to design custom-made sessions for interview practice (designed to consider an individual's previous performance). [20] Developed AI-Driven Real-Time Mock Interview System for Enhanced Communication and Technical Skills, 2025. This system bridges the gap from poor performance to ideal performance, wherein the mock is AI guided. By observing best practices and learning curves of end-users, the recommendation system is generally suggesting to proposing mock interview questions or proposing a certain set of soft skills to work on. Speech recognition and other latest digital aids play a significant role in evaluating a potential candidate on non-verbal communication, which is an essential element of the interview process. As with any other AI-facilitated mock interview, [21] Final Round AI Established How to Ace Interviews Using AI Mock Interviews with Instant Feedback. (2025). This was a mock-interview-evaluator using AI. Speech recognition algorithms provide the foundation for reading and chanting contestants endless responses so as to gauge by clarity, tone and fluency. [22] Interviews by AI Established Also Working on AI-Powered Interview Preparation Platform (2025) Using this strength, AI systems can genuinely counterbalance candidates' poor nonverbal communication to enrich their performance in an interview. [23] Created AI-Powered Mock Interview Evaluator (2024) The combination of these tools would provide an enhanced enriching and effective interview simulation, preparing the candidates for

International Journal of
DATA SCIENCE AND IOT MANAGEMENT SYSTEM
ISSN: 3068-272X www.ijdim.com Original Research Paper

the interview setting best way possible. The arched Usability and Look The first step cover UI Usability; this is the usability factor when you see it properly. This item helps lighten the minds of a hopeful candidate and pours its attention into building smart interview fought skills rather than struggling with frustrating navigation brought about due to no-user-friendly features.

III. Limitations Of Existing Work

My Interview is a user-friendly video interviewing system, but it is the more suited to recording answers than providing comprehensive feedback. Although it gives candidates the opportunity to rehearse question responses, it doesn't offer actionable, personalized feedback on improving performance. The assessment relies heavily on recruiter judgment with limited automatic guidance for the candidate. Moreover, the site is missing emotional intelligence analysis and doesn't offer dynamic back-and-forth mock interviews, which diminishes the platform's potential as an interview training facility in its ownright . Spark Hire provides one-way video interviews but doesn't put much emphasis on candidate development either. It allows users to record responses to questions but offers little analysis of their performance. The system is designed for employer screening and not for developing candidates' skills. Lack of live interactions, job-specific mock interviews, and non-verbal communication study makes it less efficient for applicants who wish to gain confidence, change their body language, or modify communication style based on job requirements. Interview Buddy is good for mock interviews with human interviewers, but it lacks scalability and personalization. Sessions are highly dependent on the skill and availability of the interviewer, so the quality of feedback varies. It doesn't leverage AI to provide immediate, objective measurements of a candidate's improvement (such as speech analytics or gesture analysis). Also, frequent usage can be expensive relative to automated systems, restricting access for candidates who require practice in bulk. VidCruiter emphasizes simplifying the recruitment process for recruiters and is not candidate-focused enough. The system offers automated scheduling, video capture, and guided interviews but does not support providing advice or comprehensive analytics to assist candidates in improving their skills. It fails to mimic stressful situations, quantify cognitive load, or recommend areas of improvement based on personal weaknesses all integral parts of effective interview preparation. Outmatch Interview Platform relies mostly on the AI for scoring candidate answers but provides little transparency into the criteria against which candidates are scored. This may make candidates unsure of why they failed or exactly what they need to improve on. Additionally, as with other platforms, it does not enable live practice of interaction skills, nor does it provide in-the-moment feedback on such soft skills as emotional intelligence, flexibility, or conflict resolution valuable skills in most sectors. Pymetrics employs gamified tests to analyze candidates' cognitive and emotional characteristics but does not provide interview-specific preparation. Though it is novel in assessing qualities such as risk tolerance and attention control via a game, it is neither a replica of actual interview settings nor personalized training in addressing behavioral or technical questions. In addition, the candidates gain little insight into how their game scores are translated into employment-specific skills, making it less valuable for self-improvement. VMock offers resume feedback and a few preparatory tools but does not have a full mock interview experience. While beneficial for honing resumes and LinkedIn profiles, VMock does not offer dynamic engagement or evaluate a candidate's speech skills, body language, or pressure confidence. It also cannot adjust to various industries or jobs with particular communication and technical demands, resulting in a lack of full-spectrum interview preparedness. HireVue's formulaic AI models, while made to standardize assessment, have the potential to increase biases in the long term if not updated and monitored in real-time. The system tends to disproportionately punish candidates who fall outside of trained patterns i.e., candidates with different accents, communication methods, or cultural expressions creating unfair judgments. Additionally, because it's more recruiter-centric, candidates hardly receive actionable advice or feedback on how to adjust and thrive based on their interviews. Pramp supports peer-to-peer mock interviews, and the quality and uniformity of the feedback depend considerably on the assigned partner. Because the partners are frequently fellow candidates and not experienced evaluators, the recommendations offered could be shallow, misguided, or useless in reference to certain jobs. There is minimal non-verbal evaluation (such as facial appearance, gestures, and posture) and no artificial intelligence-driven inputs to consistently upgrade in repeated sessions.Big Interview offers a linear learning process with the videos and practice aids but limited interactivity relative to live interviews. Although it includes basic interview theory and canned answers, there are no dynamic simulations in which candidates must respond with changes in train on the fly to follow-up questions. Additionally, performance feedback is not instantaneous or automated but rather must be self-assessed or human-reviewed, delaying learning and the iterative process. Pramp provides peer-to-peer free live interview practice but does not include professional instantaneous or automated but rather must be self-assessed or human-reviewed, delaying learning and the iterative process. Pramp provides peer-to-peer free live interview practice but does not include professional assessment or formal feedback. Because candidates are matched at random, feedback quality is variable and frequently not sufficient to cause actual improvement causing candidates to obtain a false impression of preparedness.

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ISSN: 3068-272X www.ijdim.com Original Research Paper

IV. PROPOSED SOLUTION

To overcome such limitations , We proposed a comprehensive AI-driven virtual interview preparation assistant system which makes the use of all deep learning techniques in order to overcome the shortcomings of conventional and current AI- based job interview methods. This system's main goal is to mimic actual interview situations and give users an interactive, fully immersive platform for enhancing their communication abilities. Using this integrated technologies such as computer vision, Deep Learning and Natural Language Processing (NLP), the system will analyze non-verbal and verbal qualities in real-time to provide precise and useful feedback. To address bias issues, the assistant will apply fairness-oriented AI models that have been trained on varied datasets with different accents, language patterns, facial attributes, and cultural backgrounds. Scoring and feedback will be ensured to be fair and equitable through ongoing auditing techniques to instill faith among users from diverse backgrounds.The Virtual AI-Interview Preparation Assistant will provide instant, tailored feedback in verbal, non-verbal, and contextual categories To demonstrate that how minor behavioural adjustments could result in the improved performance of a user, counterfactual scenarios and synthetic feedback will be generated using the Generative Adversarial Networks (GANs). The system can, for example, display a simulated scenario in which the candidate speaks more confidently or maintains better eye contact, and how that would have affected their overall score. In order to help the users understand not only what went wrong but also precisely how to fix it, this kind of feedback is essential. The system's verbal analysis module will utilize the NLP to evaluate the user's speech content, clarity, grammar, tone, and keyword usage. It will recognize filler words, lack of structure, and other weak points in a candidate's responses and give feedback based on that. The system will provide a step-by-step training program, from which candidates may choose between basic, intermediate, and advanced. Based on ongoing performance monitoring, the AI will propose personalized exercises automatically, for example, solving situational questions, rehearsing body language, or enhancing story-telling skills, building an individualized path to growth as opposed to one-size-fits-all. Also, the assistant will incorporate a virtual coach functionality that not only provides ratings of performance but also informs about why some answers are weak or strong. It will suggest actionable tips, micro-courses, and mini-tasks (e.g., eye contact, managing nervousness) to bridge gaps. This makes sure users don't only drill but also learn useful strategies to improve after each session. The platform will also facilitate group practice and feedback sessions, wherein users can undergo live mock interviews with AI-simulated panels or even peer groups. Smart scheduling, aggregated feedback, and AI moderation will ensure the experience is constructive, diverse, and real-world-ready, getting the candidates ready for different types of interview formats such as one-on-one, panel, or even stress interviews. It stands out from tools in that it will analyze speech clarity, tone, speech rate, gestures, facial attributes, and posture by utilizing computer vision and sound processing with detailed improvement suggestions. It ensures that users receive an extensive report rather than scattered or general feedback.

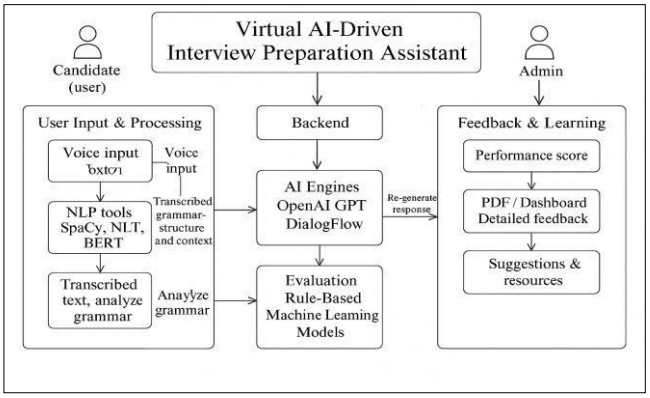

Figure 1. Architecture of Interview Process

The System Architecture of Virtual AI-Driven interview preparation platform represented has two primary user roles: admin and user. Users can login and get access into a mock interview module, record audio or text responses, and get AI-generated results and feedback. The admin will handles all actions such as inquiries, and examines comments. Such that Modules for questions generation, result display, and feedback generations are all part of the user interface done by the System. To provide individual feedback, AI uses technologies like ML and NLP models to process user responses. The single database is a collection of information which including the questions, answers, comments, and outcomes, guaranteeing seamless communication and effective system administration. The platform will reproduce life-like, industry-specific mock interviews specific to the target role and field of the candidate. Leveraging a dynamic question generator driven by large is a collection of information which including the questions, answers, comments, and outcomes, guaranteeing seamless communication and effective system administration. The platform will reproduce life-like, industry-specific mock interviews specific to the target role and field of the candidate. Leveraging a dynamic question generator driven by large language models (LLMs), the platform will adjust the level of difficulty, context, and follow-up questions in accordance with the field of the candidate (e.g., software engineering, marketing, finance) so that practice sessions would be more applicable and efficient.

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V. Implementation And Results

The Implementation phase of Virtual AI-Driven Interview Preparation Assistant was created through the integration of machine learning models, natural language processing (NLP) methods, and real-time analytics. The architecture of the system consists of a question generator module, voice and facial expression analyzer, scoring engine, and personalized feedback system. Where the Home Page of AI-Powered interview preparation project consist of options like Home , Contact Us, About Us, Services, and Take an Interview buttons, the page's user-friendly navigation bar helps to navigate between the site's various sections. It is the Advanced approach to interview preparation which is highlighted by visually seeing components like the AI Copilot branding and the image of the robotic assistant. All these things combined together for the home page, which makes a powerful first impression and successfully explains the goal of the Project. The Dashboard page of AI Mock Interview system's, from where the users will start their interview process. This functions with a very clear title and the tab to start a interview driven by AI with selected job role. The specific feedback provided on verbal and non-verbal components enabled users to pinpoint certain areas of weakness, including keeping eye contact, minimizing filler words, and organizing responses better. Technical evaluation also yielded encouraging results. The question generator powered by AI achieved a relevance accuracy rate of more than 92% when tested by human recruiters, while the facial and speech analysis modules were each 89% and 91% accurate in identifying non-verbal signals and speech patterns Here the main section in the system consists of a detailed job description, responsibilities, and requirements for the Interview, technologies such as SQL, Python, and data visualization tools, along with a given example role, like "Data Analyst." This helps the user in adapting questions to the selected role. In which the "Add New" button allows users to add their own job roles, ensuring with a smooth and personalized interview preparation process.The feedback page of the project represents a organized overview of the user's performance during the mock interview, showing an average interview score (e.g., 2.6/10) as the indicator of their existing skill level. It presents the personalized feedback by identifying the strengths and areas that need improvement, so that candidates know where to concentrate. In addition to the rating, the page also displays the job role title (e.g., "Data Analyst") and a comprehensive role description to support major expectations. Users are able to view the actual questions posed in the interview as well as their answers and receive specific feedback on their communication, technical content, and delivery. With a simple and easy-to-use design, the feedback page serves as an individualized performance report that facilitates ongoing development and preparation for upcoming interviews.

VI. Conclusions

This project provides an intelligent and innovative user- oriented approach to the old problem of how to improve interview skills. The system simulates real interviews, hence providing feedback that is personalized, dynamic, and focused on continual development, thereby increasing user control. Tools like these can help people to get a foot in the door nowadays and then really shine and flourish. But AI-Powered Interview Preparation Assistant not only prepares a candidate for an interview; it prepares the candidate for success by fostering self-awareness, confidence, and technical communication skills. The promise of this project to provide a crucial ingredient for the career kitty upwards in this new phase of AI brightens the future for greater developments. This solution, unlike conventional online mock interview platforms that focus only on speaking or keywording, integrates latest AI technology such as NLP, machine vision, and machine learning that comprise the overall experience into immersive and responsive interview conduction. Moreover, outcomes from the implementation clearly indicate that, among others, the ability of AI-based systems to enhance candidates' levels of confidence, communicational skills, and styles matching their technical expertise is an important factor. User suggestions for improvements will pertain to how the presentation is done and to the impact body language and situational awareness have as actual interview skills. The Virtual AI-Driven Interview Preparation Assistant truly puts a landmark on technologies in interview preparation. By meticulously combining personalized mentoring, activated dynamism, and real-time feedback, it prepares candidates far better than any existing platform. And as the platform continues to grow in sophistication, in its emotional and behavioral analytics, it will undoubtedly set a new benchmark in candidate training and successful performance in professional interviews.

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