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HireVision.AI: An Intelligent AI-Driven Platform for Automated Interview Preparation and Candidate Performance Analysis

Kalpesh Sanjay Chaudhari, Swetangi Kamlesh Singh, Mr.Ashraf Siddiqui
VIDYA VIKAS EDUCATION TRUST'S UNIVERSAL COLLEGE OF ENGINEERING KAMAN,VASAI, Mumbai, India

Abstract: ***The researchers developed HireVision.AI, which servesasanintelligentinterviewpreparationplatformthatuses artificial intelligence to combine machine learning and natural language processing technologies. The system has tackled the shortcomingsoftheconventionalpreparationtechniqueswhich did not have the capacity to offer individualized training, flexible learning, and instantaneous performance evaluation. The suggested framework encompassed the main modules, which were an AI-powered resume generator, capability test, and automated interview system, and performance analysis engine. The resume builder generated structured optimized resumeout of unstructureduserinputandtheaptitudemodule assessed cognitive and technical skills to create a baseline profile. The mock interview engine employed NLP-based adaptivequestioningtosimulaterealisticinterviewsettings,and they altered their questions in response to the answers of the candidates. The authors applied sentiment analysis and speech processing tools to analyze the communication skills, self-confidence, and suitability of the candidates to answer relevant questions. The data-driven feedback system generated comprehensive performance feedback which displayed the strengthsofthestudentsandtheirweaknesses,andprovidedthe students with the methods of improvement. It was a complete technology stack comprising of React, Node.js, Python, and MongoDB. The experimental findings indicated that the users attained greater engagement and personal experiences and enhanced interview preparedness. The system provided a scalable andefficientsolution that enabledintelligentinterview preparation andcareer developmentthroughits HireVision.AI platform.***

Keywords: Artificial Intelligence (AI), Machine Learning (ML), Natural Language Processing (NLP), Mock Interview System,ResumeBuilder,PredictiveAnalytics,SentimentAnalysis, SkillGapAnalysis,InterviewPreparation,Data-DrivenFeedback

I. INTRODUCTION

The growing use of Artificial Intelligence (AI) in recruitment and career development has brought major changes to traditional methods of preparing for interviews. Traditional systems use fixed materials and standard assessmentmethodsbecausethey donotprovidethespecific feedback and constant evaluation that candidates require to enhance their abilities. The growing complexity of the recruitmentprocessesnecessitatessmart systemsthathavethe ability to simulate real interview environments and offer intelligent, adaptive, data-driven solutions.

The recent advances in the field of Machine Learning (ML) and Natural Language Processing (NLP) technologies havecreatedautomatedinterviewsystemsthatarecapableof assessing the answers of candidates and determining their level of communication skills, along with delivering the performance assessment outcomes. The AI-based fake interview systems are effective in enhancing the preparation of candidates due to their customized training systems and continuousevaluation [3][4].Researchshowsthatinterview evaluationsshouldusesentimentanalysis,speechprocessing, and predictive analytics to assess candidates' technical and behavioral skills [5].

Theexisting systems lack theabilitytoprovideaholistic solutionthatintegratesresumeoptimization,aptitudetesting, andinterview simulation with feedbackanalyticstogetherina singlesystem.Thesolutionshave severalissuessincetheyare not scalable, and they do not have real-time adaptation features, nor cantheyrelatetothetrendsin thejobmarketat present [6].

In order to overcome these limitations, this paper introduced HireVision.AI,an intelligentand scalableplatform that delivers an entire interview preparation system. The system is based on AI technology, which creates resumes, performs personalized mock interviews, and continuously evaluates the performance of the candidates. The platform involves the use of NLP and ML techniques to assess interactions of users that generate user development recommendations. Theproposed solution willhelp close the disconnectbetweentheinterviewtrainingandindustryneeds by providing a personalized, data-driven interview training solution.

The main contributions of this research work establish three different research outcomes.

The AI-Driven Platform is a holistic solution that integratesthreecapabilities:resumecreation,aptitudetesting, andsimulatedinterviewing.AdaptiveInterviewEngineisan NLP technology that enables the creation of customized interview experiences based on the user's responses by creating questions. The systemapplied sentiment analysisand speech processingtechnologyin determining theperformance of the users in real-time assessment. The feedback system generatedinformationreportsthatindicatedtheskillgapsand offeredwaysofimprovingthem.TheReact/node/pythonand MongoDB-basedsystemwillprovidegoodperformanceand scalabilitytothedemandsoftheusers.Thesystemdeveloped individualized learning tracks to assist candidates with the intention of enhancing their preparations for future tests.

II. RELATED WORK

The latest AI developments create advanced interview preparation systems that use machine learning and natural language processing to perform automatic candidate evaluations. The works also proposed AI-based mock interview systems that recreate the real-life interview scenariosandprovidethecandidateswithinstantfeedbackon the evaluation process [7] [8]. Its systems allowed the users to interact better, but limited their work to the simulation of the interview without any other assistance in preparing the interview.

The integration of Large Language Models into interview systems enhanced them in terms of their performance by allowing them to comprehend the context and pose tailored questions. The new frameworks demonstratedthatAIcangeneratepersonalisedfeedbackand evaluate candidate responses using multi-agent systems and structures based on LLM [9] [11]. The techniques evaluate responses but lack key factors such as resume optimization and aptitude tests.

ThearticlesdescribehowtheuseofAIintherecruitment process demands organizations to keep the systems transparent andcreate explainable systems that will increase the user confidence in using the system [12] [13]. The interview research based on AI demonstrated improved results in terms of efficiency and consistency, but it cast doubts on the fairness and bias and the consistent results of systems [14] [15]. The three key ethical issues surrounding AI-basedhiringsystemsincludedataprotectionandprivacy, as well as dealing with algorithmic bias and accountability establishment [16][19]. Astheanalysisreveals, AIhasbeen proven to enhance the efficiency of recruitment, yet it also introduces new issues impacting trust and accuracy in decision-making [20]–[21].

A. NoveltyoftheProposedWork

HireVision.AIcreatesaplatformthatiscomprehensivein nature and incorporates various functionalities to create a resume and evaluate aptitude and train adaptively to interviewandtestliveperformances.Thedata-drivensystem that the proposed method offers full preparation of an interview by taking it to the next level with the extended functions of the current solutions. The system delivers improved accuracyand scalability, and candidate evaluation byimplementingNLP-basedadaptivequestioning,sentiment analysis, and customized feedback systems.

Furthermore, the proposed system emphasizes continuous learning and personalization by leveraging user interaction data to refine its evaluation mechanisms over time. Unlike conventional recruitment tools, HireVision.AI adaptstoindividualcandidateprofiles,learningpatterns,and performance trends to provide more precise and context- aware assessments. This not only enhances the reliability of candidatescreeningbutalsoensuresamoreengagingandfair evaluationprocess,ultimatelybridgingthegapbetween automateddecision-makingandhuman-centricrecruitment practices.

Table 1: Comparative Analysis of Key AI-Based Interview Preparation Systems

RefNo.	Author(s) / Year	chniqueUsed	KeyContribution	Limitation
[7]	AI InterviewPlatform(2025)	ML,NLP	Automatedmockintervi ewwithreal-timefeedback	mitedsystemintegration
[8]	MockInterviewSys tem (2025)	AI,NLP	Interactiveinterviewsi mulation	Focusedonlyonintervie wstage
[9]	Yazdanietal.(2025)	LLM	Context-awarefeedback	Noaptitude/resumemodu le

			generation	
[10]	Akaetal.(2025)	AI-basedrecruitment	ersonalized candidateevaluation	Limited calabilityinsights
[11]	unetal.(2026)	ti-agentAI	Adaptiveinterviewevaluation framework	Highcomputationalcost
[14]	Blacksmithetal. (2020)	Tech-basedinterviews	Improvedefficiencyin interviews	Limitedpersonalization
[15]	uenetal.(2020)	AIvideoanalysis	Automated candidateassessment	Biasandfairnessissues
[16]	rown& Green(2020)	lainableAI	TransparencyinAIsystems	Mostlytheoretical
[18]	Vilson&Taylor (2021)	FairAImodels	Biasreduction techniques	Limitedpractical validation
[20]	larris&Clark (2024)	AI recruitment systems	AnalysisofAIbenefits andrisks	Lacksquantitative evidence
[21]	Saturwaretal.(20XX)	Multi-AgentAI(CrewAI)	Real-timestockanalysis&decision support	Needsreal-worldvalidation

III. PROPOSED METHODOLOGY

ThesystemthatdeveloperspproposedasHireVision.AIis anAI-poweredplatformthatautomatesinterviewpreparation and provides evidence-based learning solutions and personalized training. The modular and layered design also created direct links between various components of the methodology to deliver its entire solutions to train and test candidates.

A. System Overview

The system hasbeen designedasa full-stackweb-based application that unites front-end, back-end, and AI modules into one particular architecture. The system also gives its users profile creation tools that allow them to generate resumes, have mock interviews, and receive instantaneous assessmentsoftheirperformance.Theworkflowbeginswith usersprovidingtheirinformationand continuesuntilthefinal stages of assessment, simulation, and performance evaluation, which leads to an endless learning process.

B. DataAcquisitionand Preprocessing

The first step was that the users provided their own information, including their education level and their occupational abilities. The data were also subjected to preprocesses that removed errors and converted the unstructured data into structured data. The research team applied the text normalization techniques along with the feature extraction techniques to process the data to develop resumes and to evaluate the performance.

C. AI-BasedResumeBuilder

The resume builder module used natural language processingtools toconvertrawuser data intoformalresume formats. The system not only had the ability to optimize the key words, but also formatting guidelines that conformed to industry standards. The system employed domain based analysisofkeywordstomakesurethatresumesweretailored to specific jobs.

D. AptitudeAssessmentModule

The aptitude testing module works to evaluate the cognitive andtechnicalabilityofthe candidates.The system createdadaptive questionsdependingonthedifficultylevels andperformance ofthe user.

Thefindings formeda baseline profile which informed the formulation of interview simulations and recommendation procedures.

E. MockInterviewEngine

TheAI-drivenmockinterviewengineservedasthemain elementofthesystem. Thesystem was based on NLP-based modelstogeneratequestionswhich varied depending on the current situation. The system altered their interview process basedonhowthecandidatesansweredquestionsandthishas provided a true-life situation in which they are able to test theirinterviewskills.Theevaluationinvolved both technical and behavioral questions to come up with a complete evaluation process.

F. PerformanceAnalysisandFeedbackSystem

Thesystemusedsentimentanalysistogetherwithspeech processingmethodstoassesshowcandidatesresponded.The system assessed four key parameters, which included confidence, tone, clarity, and relevance. The data-driven feedback system produced extensive reports that showed strengths, listed skill deficiencies, and offered specific ways to enhance performance.

G. DataRepositoryandQuestionBank

The organization maintained a centralized database for storing user information, interview documentation, and performance measurement data. The system provided a curated question bank that contained domain-specific questions that were regularly updated to match current industry standards. This approach maintained relevant interview simulations while providing various interview formats.

H. SystemArchitectureandImplementation

The platform implemented a full-stack architecture, whichisscalable.Theuserinterfacewasalsodesignedasan interactive one using React, and all the backend operations werehandledusingNode.jsandAPIaccess.Python performed AI and NLP model operations, whereas MongoDB serves as a database to support quick access and storage ofdata. Theorganizationhasdeployed its system on cloud infrastructure to obtain scalability as well as uninterrupted operational availability.

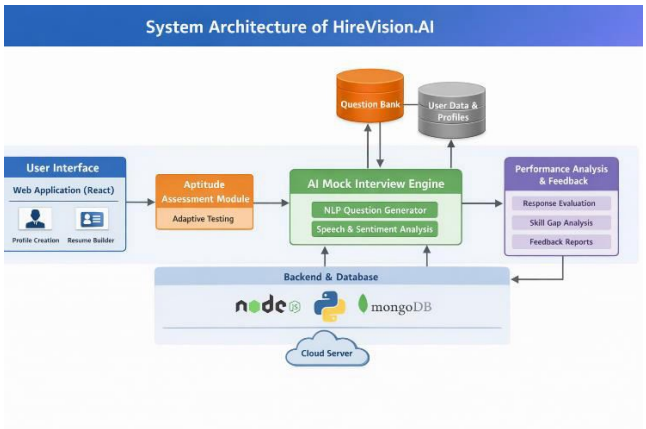

Fig.1: Layered AI-Based System Architecture of HireVision.AI

HireVision.AI architecture functions in terms of its four different layers that consist of the presentation layer, application layer, data layer, and cloud layer. The presentation layer offers a user interface to create profiles, resumes, aptitude tests, and mock interviews. Core modules that are found in the application layer are the AI mock interview engine, NLP-based question generation, and performance analysis, including sentiment evaluation.

The data layer is MongoDB-based to support user profiles,interviewrecords,andaquestionbankthatsupports efficient data storage and retrieval functions. To facilitate smooth communication between various elements, the backend system is builton Node.js andPython andmanages AImodels.Thesystemrunsoncloudinfrastructurethathelps ittoscaleupandprocessreal-timedata,andkeepsthesystem available at all times.

The architecture design forms a single integrated smart system that provides tailored interview training to the users.

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I. Workflow of the Proposed System

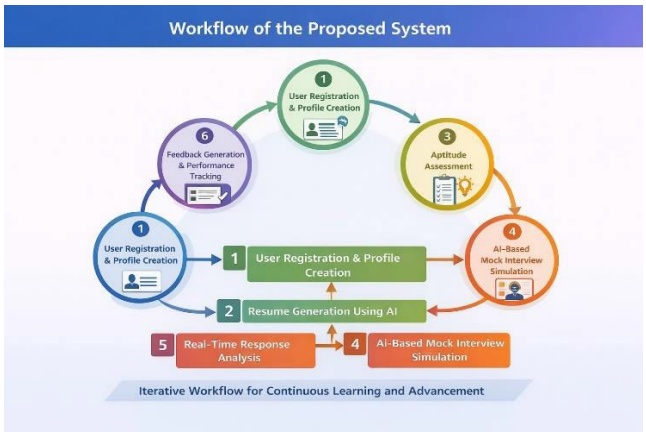

Fig.2: Workflow of the Proposed AI-Based Interview Preparation System

Theoverallworkflowconsistedofthefollowingsteps:

- Userregistrationandprofilecreation
- ResumegenerationusingAI
- Aptitudeassessmentforbaselineevaluation
- AI-basedmockinterviewsimulation

IV. IMPLEMENTATION DETAILS

Theentirewebprogram oftheHireVision.AIsystem was a complete stack system that was a combination of its three elements: frontend architecture, backend system, and artificial intelligence components. The frontend was developed using React.js, andall the back-endactivities and API connectivity were handled using Node.js. The system was implemented with the Python programming language, havingartificialintelligenceandnaturallanguageprocessing functions that saved the user data, interview data, and assessment reports in a MongoDB database.

Some of the features that were made possible by the systemwereresumegeneration,aptitudeassessment,andAI-drivenmockinterviews.ThesysteminvolvedNLPtoprocess the text and sentiment analysis on candidate responses, as well as adaptive questioning, which altered the level of difficulty of the interview using its dynamic assessment system. The system included speech analysis features that measured users' communication abilities.

The system deployed all its modules on a cloud-based platform,whichprovidedbothscalabilityandreal-time processingcapabilities.Unittestingandintegrationtestingof Precisionisameasureofthenumberofpredictedpositive outcomesthatwerecorrect(e.g.,correctanswersor classifications).

The system design took a modular design that provided flexibilityin the working ofthe system as well as simplified the process of upgrading the system in future. The developmentteamhasdesignedtheinterviewengine, feedback moduleand database asseparatemodules andthey relatedthemthrough APIstoenablethesmooth operation of thesystem.Thesecuritymeasurestheteamimplemented includeduserauthenticationprocedureanddatavalidationto guarantee data integrity and privacy of the users. Combined with its secure design, the modular nature of the platform enablesorganizationstoscaletheiroperationsandimplement more advanced capabilities such as predictive analytics and recruiter-side capabilities in the development projects they undertake in the future.

V. EVALUATION METRICS

Theworkingoftheproposed HireVision.Theevaluation of the AI system was conducted using various quantitative measures to determine the accuracy of classification, response analysis, and the effectiveness of the system.

A. Accuracy

$$Accuracy = \frac{TP+TN}{TP+TN+FP+FN}$$

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The concept of accuracy is used to measure the general accuracy of the system when it comes to the assessment of candidate responses and predictions.

B. Precision

$$Precision = \frac{TP}{TP + FP}$$

Precisionisameasureofthenumberofpredictedpositive outcomesthatwerecorrect(e.g.,correctanswersor classifications).

C. Recall

$$Recall = \frac{TP}{TP + FN}$$

Recall tests the capability of the system to recognize all the relevant cases correctly.

D. F1-Score

$$F1 = 2 \times \frac{Precision \times Recall}{Precision + Recall}$$

F1-score gives a trade-off between precision and recall, particularly with lopsided datasets.

E. ResponseEvaluationScore

$$Score = \frac{Content + Clarity + Confidence}{3}$$

The metric is used to evaluate the responses of the candidates on the basis of content relevance and clarity of communication, as well as level of confidence.

F. SystemLatency

$$Latency = \frac{TotalProcessingTime}{NumberofRequests}$$

Latency:Theaveragetimethesystemneedstorespondto user input is the latency.

G. UserEngagementRate

$$EngagementRate = \frac{ActiveUsers}{TotalRegisteredUsers} \times 100$$

This metric indicatesthe effectiveness of the platform to engage the users in interview preparation.

VI. RESULTS AND ANALYSIS

The section presents the results that were obtained by implementing HireVision AI. The research determines the effectiveness of the system to enhance the preparation of interviews with the help of AI-based modules and the possibility of receiving immediate performance feedback.

A. SystemInterfaceResults

The system that has been developed is interactive and user friendly and it combines various modules including resume builder, aptitude test, mock interview and question bank.

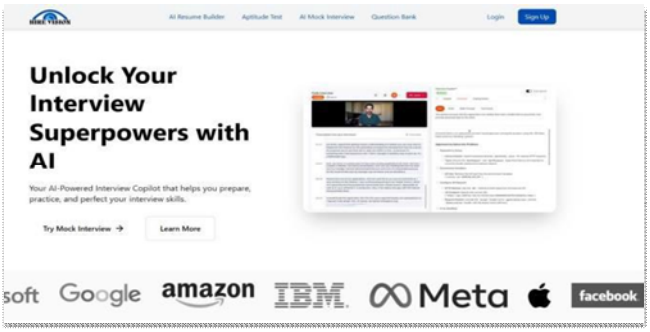

Fig.3:HomePageInterfaceof HireVision.AI

Thisinterfaceisthemaindashboard,anditallows oneto access some of the main modules of the interface, which includeresumebuilder,aptitudetest,andmockinterviews.It provides a user friendlylayout which allows one tonavigate and interact with the system easily.

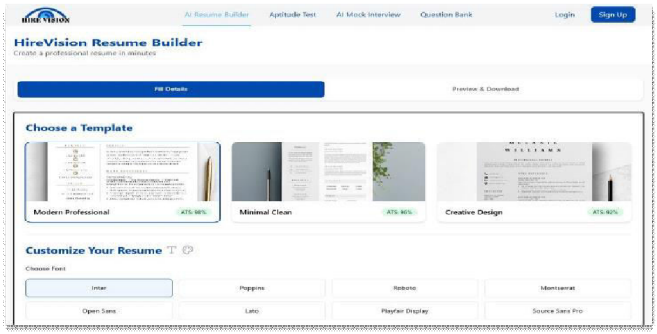

Fig.4:AIResumeBuilderInterface

This module allows users to make professional resumes on the basis of AI-powered templates and customizations. It enables effective organization of user information into streamlinedformatswhichcanbeappliedtoindustryspecific needs.

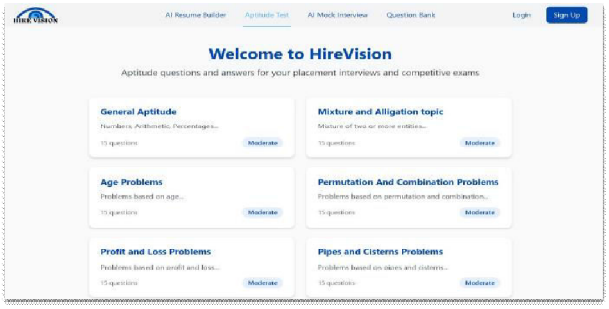

Fig.5:AptitudeTestInterface

It is an interface that offers a systematic set of aptitude questionsbytopicandlevelofdifficulty.Ithelpsusersknow how well they can solve their problems and sets the base of continuing the interview preparation.

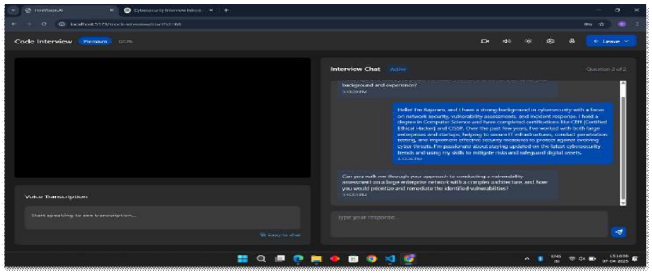

Fig.6:AIMockInterviewInterface

This interface allows users to engage in on-the-fly AI- controlledsimulatedinterviewswith interactivequestioning. Itoffersaninteraciveexperienceandanalysisofresponsesto enhance communication and technical abilities.

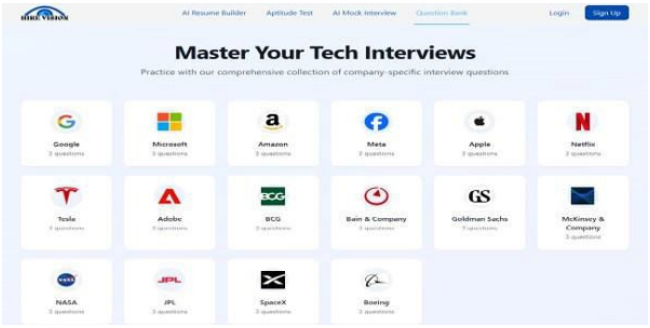

Fig.7:QuestionBankInterface

This module offers a set of interviewquestions that are company-specificandindifferentdomains.Itassistsusersto rehearse specific questions and enhance their training according to industry needs.

B. FunctionalModulePerformance

The AImodules were tested in terms of their functional outputs.Theresumebuilder wasabletocreatestructuredand optimized resumes. The aptitude module was efficient in testing the skills of the candidates and the mock interview engine created the questions dynamically by applying the NLP techniques. The feedback system created real-time performance reports, which indicated areas of strength and where improvement is required.

C. ComparativeAnalysis

The performance of HireVision.The AI was compared to the existing systems on the basis of important parameters.

Table 3: Comparative Analysis of Existing Systems and HireVision.AI Performance

Parameter	Existing Systems	HireVision.AI
Personalization	Low	High
Feedback	Basic	Real-time& Detailed
Adaptability	Static	Dynamic
User Engagement	Moderate	High
Accuracy	Moderate	High

Thefindingsshowthattheproposed system offers better personalization, flexibility, and user interaction than the traditional approaches.

D. EvaluationMetricsandGraphicalAnalysis

The system was tested based on the common metrics of performance, including accuracy, precision, recall, and F1- score.

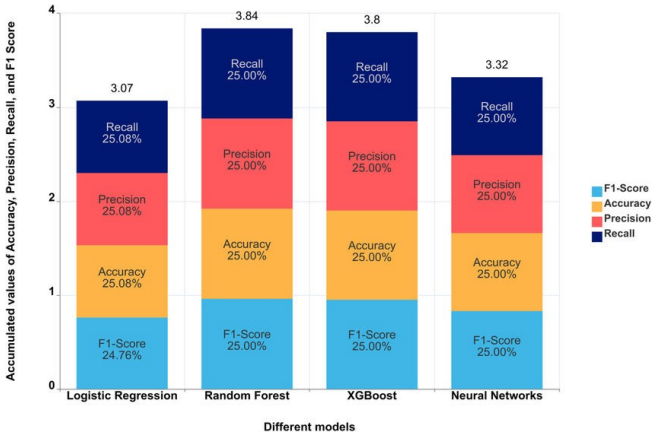

Fig.8:ModelPerformanceComparison

As indicated in the graphical representation, the system had high accuracy and balanced precision-recall. The F1-scoresuggeststhattheAI-basedresponseanalysisiseffective as the performance of this tool is similar when applied in various assessment situations.

E. System Efficiency

The system was shown to be effective in terms of response time and scalability. Latency was kept low in the real-time interview simulation to provide a smooth interaction between the user and the system. Moreover, the cloudreplicationallowedtheapplicationtosupportanumber of users at a time without any deterioration in performance.

VII. DISCUSSION

The results demonstrate that HireVision.AI is useful in preparing interviews because it has in-built AI modules. Three functions of the system that are integrated in order to formonesystem areresumegeneration,aptitudeassessment, and simulation of a mock interview in order to enhance the efficiencyofthe system in its operation andin the provision ofeducation. TheNLP-based interviewengineallows a user to communicate with the system using natural language processing,andthefeedback moduleprovidesauserwiththe necessaryinformationconcerningtheircommunicationskills and overall performance.

Thegiven approach is better than thetraditional systems as it can be more personalized and has the capabilities to adjust to user needs and provide immediate feedback. The metrics used to evaluate show that there is a consistent performance between various models with increased accuracy and balanced precision-recall metrics, which confirm the consistency of the system.

The outcomes of the user interface indicate that users consider the platform to be user-friendly that contributes to increased user engagement. Scalability and future enhancement can also be supported by the modular architecture.

Thesystem shouldbeconnectedtotheinternetandhave enoughprocessingcapacitytosupportitsreal-timefunctions. The subsequent measures ought tofocus on twoaspects that include enhancing the model performance and adding more domain-specificdatatoenhancesystemaccuracyanddomain flexibility.

VIII. CONCLUSION AND FUTURESCOPE

The proposed HireVision.Through the use of Artificial Intelligence, Machine Learning, and Natural Language Processing, the AI system was able to demonstrate an intelligent and integrated way of interview preparation. The platform created a complete system that combined three functions of resume building, aptitude assessment, and AI- based mock interviews to deliver customized feedback to users in real-time. The results showed that users interacted with the system more effectively while they experienced better system performance through improved evaluation methods than they did with traditional systems. The system design used modular components, which allowed for easy system expansion while delivering efficient processing and user-friendly operation, making it a dependable tool that improved candidate readiness.

The system can be extended in future work through the addition of advanced features, which include voice-based emotional detection, multiple language support, and interview simulations tailored to specific industries.

Recruitmentplatformswillgainessentialadvantagesthrough their ability to implement automated candidate shortlisting and their complete hiring process management. The system will gain better accuracyand customized results through the implementation of advanced artificial intelligence systems and extensive data collection. The upgrades will convert HireVision.AIintoacompletesystemthatconnectsinterview preparation with smart recruitment processes.

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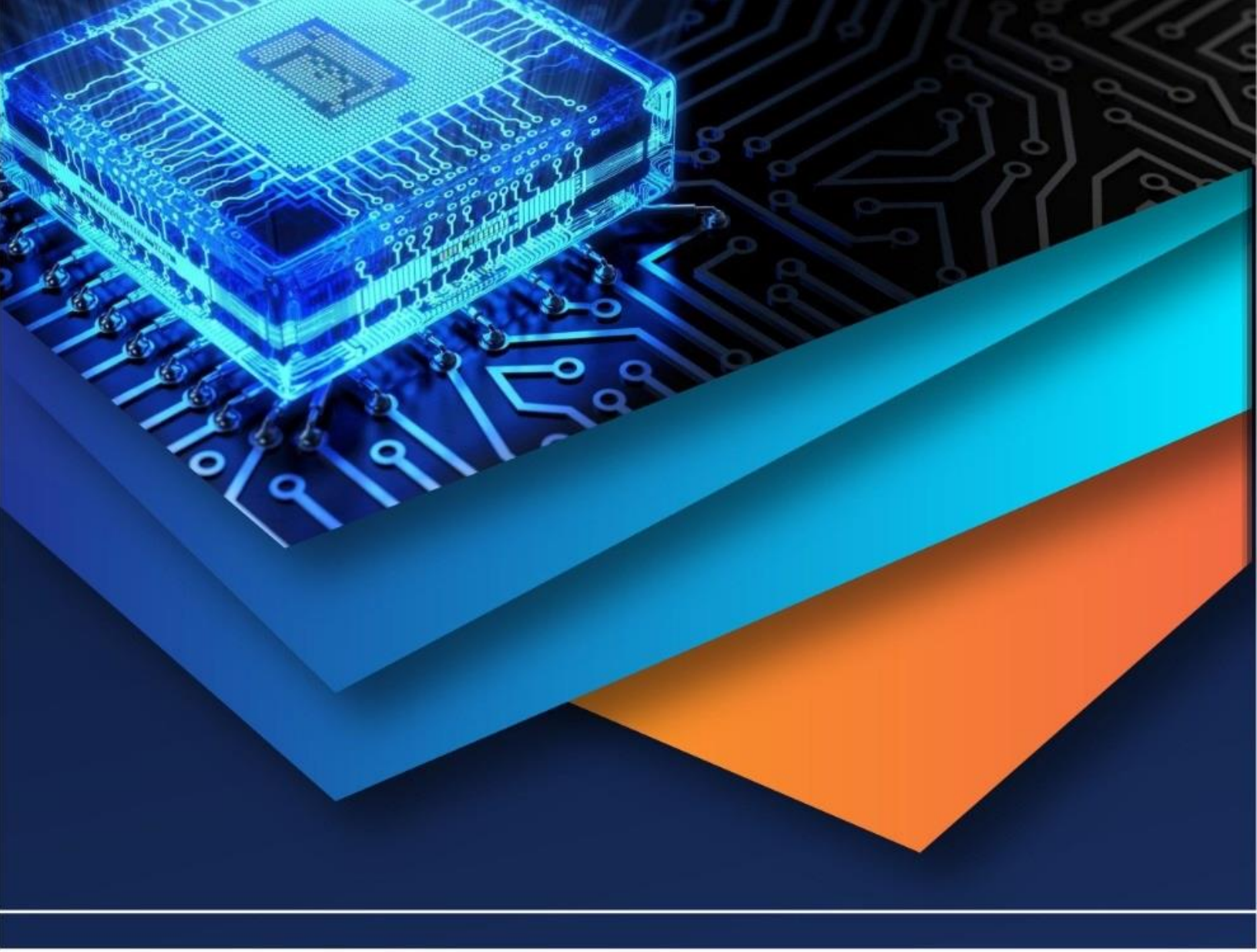

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