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MOCKAI- A Personalized Voice-Interactive Interview Simulation System Using LLMSand Real-Time Speech Analytics

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Abstract: ***The increasing competitiveness of the job market necessitates effective and scalable interview preparation mechanisms for candidates. Conventional mock interview methods often lack realism, adaptability, and personalized evaluation, limiting their effectiveness. This project presents MOCKAI, an innovative AI-powered mock interview platform designed to enhance interview readiness through intelligent, voice-interactive systems. MOCKAI addresses key limitations of traditional mock interviews by introducing realism, adaptability, and personalized feedback into the preparation process. The system leverages Large Language Models (LLMs), natural language processing, and real-time speech analytics to simulate authentic interview environments across multiple domains. MOCKAI dynamically generates role-specific and skill-based interview questions, records and transcribes candidate responses, and evaluates performance using advanced speech and language analysis techniques. By analyzing factors such as content relevance, clarity, confidence, fluency, and communication effectiveness, the platform delivers instant, personalized feedback to users. MOCKAI functions as a personal AI interview coach, enabling candidates to practice repeatedly in a low-pressure environment while receiving actionable insights for improvement. The platform adapts to individual performance levels, ensuring tailored interview experiences that align with real-world hiring standards. Its interactive and user-friendly design promotes accessibility and engagement, helping users build confidence and refine their communication skills. Through its AI-driven approach, MOCKAI significantly improves interview preparedness, reduces anxiety, and enhances overall candidate performance. By combining cutting-edge AI technologies with human-centered design principles, MOCKAI offers a scalable and effective solution for modern interview preparation, empowering candidates to succeed in real-world recruitment scenarios.***

Keywords: Artificial Intelligence, Large Language Models, Natural Language Processing, Mock Interviews, Speech Analytics, Voice Interaction, Interview Preparation, Personalized Feedback, Communication Skills, Real-time Analysis

I. INTRODUCTION

With the increasing volume of job applicants and heightened competition for roles, interview performance has emerged as a key determinant in recruitment decisions. Industry reports suggest that nearly 70% of recruiters prioritize communication skills and response quality during interviews, highlighting the growing need for effective and scalable interview preparation mechanisms. The contemporary job market presents significant challenges for candidates seeking to secure employment in an increasingly competitive recruitment environment. Recent industry surveys indicate that over 70% of recruiters consider interview performance and communication skills as critical decision factors, often outweighing academic scores or technical credentials. Despite this, a large proportion ofcandidates remain inadequately prepared for real-world interviews. Studies report that nearly 60% of job applicants fail interviews due to poor communication, lack of confidence, or ineffective response structuring, rather than insufficient technical knowledge.

Traditional interview preparation methods, such as peer-based mock interviews or static question repositories, often lack adaptability, realism, and objective performance evaluation. These approaches are typically time-constrained, inconsistent in quality, and heavily dependent on human evaluators. As a result, candidates receive limited feedback that is often subjective and difficult to quantify. Furthermore, research suggests that more than 65% of candidates have access to fewer than two realistic mock interview sessions prior to actual interviews, highlighting a scalability gap in conventional preparation practices.

With the growing emphasis on behavioral assessment, domain-specific questioning, and communication effectiveness, there exists a critical mismatch between existing preparation tools and modern hiring expectations.

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Advances in artificial intelligence and machine learning present promising opportunities to address these challenges through intelligent automation and data-driven evaluation. Technologies such as Large Language Models (LLMs) and Natural Language Processing (NLP) have demonstrated the ability to generate context-aware questions and analyze linguistic patterns, while speech analytics enables the assessment of paralinguistic features such as fluency, confidence, and clarity. Recent studies indicate that AI-assisted interview systems can improve candidate response quality by 30–40% after iterative feedback cycles.

MOCKAI addresses these limitations by introducing an AI-powered, voice-interactive mock interview platform designed to simulate realistic interview scenarios across multiple domains. The system integrates LLM-based dynamic question generation with real-time speech-to-text processing and automated response evaluation. MOCKAI objectively assesses content relevance, coherence, confidence, and communication effectiveness, providing instant, personalized feedback to users.

The platform functions as a scalable personal AI interview coach, enabling candidates to engage in repeated practice sessions without time or resource constraints. Adaptive difficulty levels and domain-specific interview flows allow the system to align with evolving industry standards. Experimental observations indicate that candidates using AI-driven mock interview systems demonstrate increased confidence levels and improved response structuring, with preparation time reduced by approximately 40% compared to traditional methods. This paper presents the design, implementation, and evaluation of MOCKAI as a next-generation interview preparation system, demonstrating how intelligent automation can enhance interview readiness, reduce candidate anxiety, and improve overall performance in real-world recruitment processes.

II. SCOPE

The scope of the MOCKAI project encompasses the development of an AI-powered, voice-interactive mock interview platform capable of simulating realistic interviews scenarios across multiple job domains and experience levels. The system focuses on dynamic question generation using Large Language Models, real-time speech-to-text processing, and automated response evaluation through natural language processing and speech analytics. MOCKAI aims to assess both technical and behavioral aspects of candidate responses, including content relevance, clarity, fluency, confidence, and communication effectiveness. The platform is designed to provide instant, personalized feedback and adaptive interview flows, enabling candidates to iteratively improve their interview performance in a scalable and unbiased environment.

Additionally, the project scope includes future extensibility toward advanced analytics and broader real-world integration. This involves support for multilingual interviews, role-specific evaluation metrics, emotion and sentiment analysis, and detailed performance dashboards for long-term progress tracking. MOCKAI can be extended for use by educational institutions, training centers, and recruitment platforms as a standardized interview preparation tool. By leveraging continuous learning mechanisms and modular system architecture, the platform is positioned to evolve with changing industry requirements, making it a sustainable and impactful solution for modern interview preparation.

III. LITERATURE REVIEW

A. Research Gap Identification

In today's highly competitive job market, interview performance has become one of the most important factors in recruitment decisions, with a majority of recruiters prioritizing communication skills, confidence, and the ability to structure responses effectively[4], [12]. However, many candidates remain underprepared for real-world interviews, not because they lack technical knowledge, but due to poor speaking ability, low confidence, unclear answers, and weak response organization[6], [22]. This gap results in repeated interview failures and increased anxiety, especially for candidates who do not have access to frequent, realistic practice opportunities[1], [5], [7].

Traditional interview prep methods like mock interviews, coaching, and static question banks lack scalability, consistency, and personalization[3]. They rely heavily on human feedback, which can be subjective and time-consuming, and they rarely simulate real interview pressure. Most also fail to evaluate both the quality of answers and speaking delivery in real time[19]. Hence, an automated voice-interactive system is needed to generate domain-specific questions, analyze spoken responses instantly, and provide personalized feedback to improve performance[2], [16].

The project aims to develop MOCKAI, a personalized voice-interactive interview simulation system that helps candidates practice realistic interviews anytime with instant feedback[12]. The integration of LLM-based dynamic interview question generation with real-time speech analytics, allowing the system to evaluate not only the correctness and relevance of answers but also key communication factors like fluency, confidence, clarity, and response structure[11], [17].

Unlike existing mock interview platforms that rely on fixed question sets or delayed/manual feedback, MOCKAI provides an adaptive, domain-specific interview flow with automated, measurable performance insights, making interview preparation more scalable, interactive, and closer to real-world interviewconditions[1],[3].

B. AI-Based Mock Interview Platforms and Performance Analysis

Early work on AI-based mock interview systems involved automated performance evaluation and feedback. Chou et al. [1] developed an AI-based mock interview system for interview performance analysis, where speech patterns, quality of responses, and behavioral aspects were analyzed to offer structured feedback. Their work emphasized the need for automated evaluation in scalable interview training. Sharma et al. [2] furthered this area of research by combining computer vision, natural language processing (NLP), and generative AI to develop multimodal mock interview systems that analyzed verbal and non-verbal communication. These works show the potential for AI to substitute traditional manual interview training with intelligent and adaptive systems that can evaluate performance in real-time.

C. Computer Vision and Behavioral Analysis in Mock Interviews

Studies have also highlighted the need for computer vision in analyzing body language, posture, and facial expressions. Mishra et al. [3] developed an AI-based virtual mock interview system that utilized visual perception for behavioral analysis. Jadhav et al. [5] proposed pose-based interaction using AI and computer vision, which helped in posture recognition and analysis of movements to assess candidate confidence and professionalism. Mandal et al. [6]proposed an emotion and confidence classifier model based on facial expression recognition and affective computing to evaluate emotional stability and confidence levels during interviews. These models clearly show that non-verbal communication has a crucial role in interview performance and can be quantified using vision-based AI models.

D. Natural Language Processing and Generative AI for Interview Simulation

NLP and generative AI models are being increasingly leveraged for simulating real-life interview settings. Sharma et al. [2] employed NLP and generative AI for developing dynamic interview questions and adaptive responses. J. M. C. J et al. [7] developed Q&AI, an AI-assisted mock interview bot that leverages conversational AI for improving candidate performance through interactive question-answer sessions. Barpute et al. [8] described a survey-based framework (InterviewX) that combines GenAI and machine learning for simulating real-life interviews. These works demonstrate the potential of LLM-based conversational agents for facilitating contextual questioning, smart follow-ups, and domain-specific interview simulation.

E. Employability Enhancement and Career-Oriented Interview Systems

AI mock interview systems are being increasingly developed for improving employability and job readiness. Amarasena et al. [4] developed an expert-level mockinterview system exclusively for new IT graduates, in the emphasizing employability skills, technical preparedness, and communication abilities. Umbare et al. [12] described an AI-assisted mock interview system for ensuring career success, emphasizing continuous learning and adaptive performance feedback. These systems go beyond technical assessments and concentrate on comprehensive candidate development, such as confidence building, communication skills, and career readiness.

IV. PROPOSED SYSTEM

Our Proposed System is an AI-powered voice-interactive mock interview platform designed to simulate real interview scenarios and evaluate candidates automatically[12]. It combines Large Language Models (LLMs) with real-time speech processing to conduct interviews in a natural conversational manner, generate domain-specific questions, and provide instant performance feedback. By storing user responses and progress data for analytics, MOCKAI acts as a scalable and personalized interview preparation tool that helps candidates improve both their answer quality and communication skills effectively[8], [13].

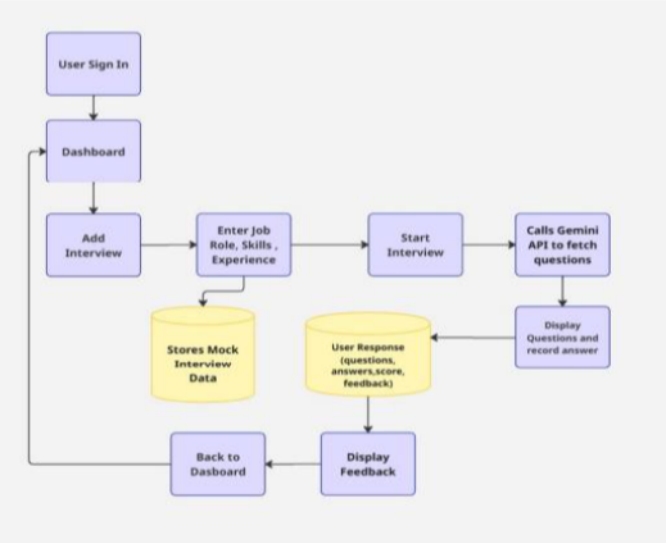


Fig.1 Flowchart of Proposed System

1) User Sign In: The process begins with user authentication, where the candidate logs into the MOCKAI platform using secure credentials. This step ensures personalized access to interview history, saved sessions, and performance analytics. Authentication enables secure data handling and allows the system to retrieve previously stored interview records from the database for continuous progress tracking.

2) Dashboard: After successful login, the user is redirected to the dashboard, which serves as the central control panel of the system. The dashboard provides access to previous interview sessions, performance scores, feedback summaries, and progress analytics. It retrieves stored data from Supabase to display structured insights such as strengths, weaknesses, and improvement trends, allowing users to monitor their development over time.

3) Add Interview: When the user selects “Add Interview,” a new mock interview session is initiated. This step marks the creation of a fresh session where the system prepares to gather contextual information required for adaptive question generation. It ensures that each interview attempt is uniquely configured based on user inputs rather than relying on fixed question sets.

4) Enter Job Role, Skills, Experience: The user provides key details including the target job role (e.g., Data Analyst, Software Developer), relevant technical or domain skills, and level of experience. These inputs are critical because they form the contextual foundation for the LLM. The system uses this information to generate domain-specific, experience-appropriate interview questions that align with real-world hiring expectations.

5) Stores Mock Interview Data: Once the role, skills, and experience are submitted, the system securely stores this metadata in the database (Supabase). This ensures that the session configuration is preserved, enabling future reference, performance comparison, and analytics. Storing this information also supports adaptive questioning and structured tracking of user progress across multiple sessions.

6) Start Interview: When the user clicks “Start Interview,” the system activates the interview engine. This step triggers backend processes that prepare the Large Language Model (LLM) to generate customized interview questions based on the stored session details. It marks the transition from setup mode to live interview simulation mode.

7) Calls LLM API to Fetch Questions: The system sends the job role, skills, and experience data to the LLM (e.g., GPT-4-turbo) through an API call. The LLM dynamically generates context-aware interview questions tailored to the user’s profile. Unlike traditional static question banks, the model adapts its questioning logic and can produce intelligent follow-up questions based on previous responses, creating a realistic and interactive interview flow.

8) Display Questions and Record Answer: The generated questions are displayed on the interface and delivered using Text-to-Speech (TTS) for a natural interview experience. The user responds verbally, and Speech-to-Text (STT) converts the spoken response into text in real time. The system records these responses for evaluation. NLP techniques process the converted text to analyze semantic meaning, structure, and relevance before evaluation.

9) User Response (Questions, Answers, Score, Feedback): The system evaluates each response using AI-based analysis. The LLM assesses relevance, clarity, completeness, coherence, and communication quality. Based on this evaluation, it generates a performance score and constructive feedback highlighting strengths and areas needing improvement. All questions, answers, scores, and feedback are structured and stored securely in the database for future reference.

10) Display Feedback: After evaluation, the system present detailed feedback to the user. This includes performance scores, qualitative comments, identified weak areas, and actionable improvement suggestions. Immediate feedback allows users to understand mistakes instantly and refine their responses through repeated practice, supporting continuous skill enhancement.Finally, the user is redirected back to the dashboard, where updated performance data is reflected in analytics and progress tracking. The dashboard aggregates session results, enabling comparison with previous interviews and providing a data-driven overview of improvement over time. From here, the user can initiate another interview session or review past performance insights.

V. IMPLEMENTATION

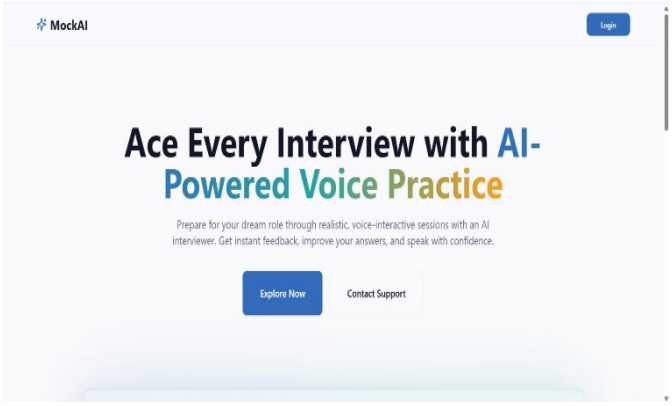


Fig.2 Home Page of the system

The landing page introduces MOCKAI as an AI-powered, voice-interactive mock interview platform designed for realistic practice and instant feedback. The authentication page provides secure, personalized access through email and password login. It is built using Next.js and Tailwind CSS for a responsive and consistent design.

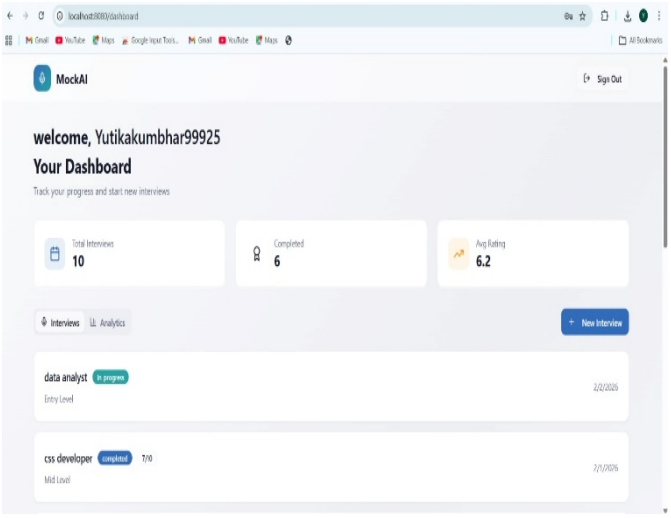


Fig.3Interview previewed dashboard of the system

The personalized dashboard is the main control interface of MOCKAI, allowing users to track their interview preparation progress and manage active or completed sessions. After login, users are redirected to the dashboard, where key metrics such as total interviews, completed sessions, and average ratings are displayed clearly and concisely.

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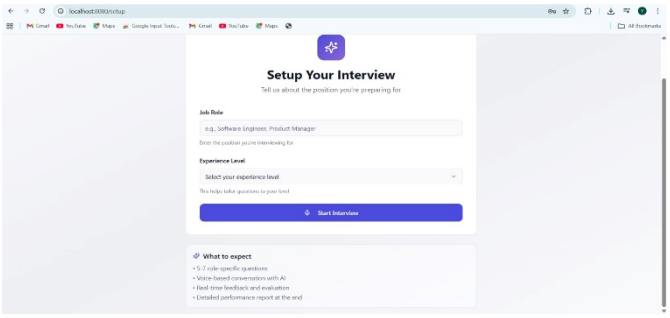


Fig.4Interview Setup

The interview setup page allows users to set up a customized mock interview session by gathering necessary information for the generation of the interview.Regarding data authentication and processing [4],[17], only authenticated users can access this page via database. Once the user clicks on the form submission, the data is validated and then securely sent to the backend [17].

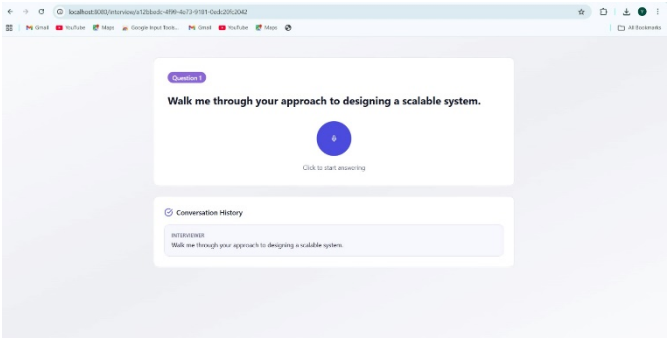


Fig.5 Interview Pagefor conducting mock interview

In the voice-interactive mock interview, once the session starts, the LLM generates domain-specific questions based on the selected role and experience. The question is converted to speech using Whisper AI, and the user's spoken response is captured through the microphone, transcribed in real time, and sent to OpenAI for semantic analysis of relevance and clarity.

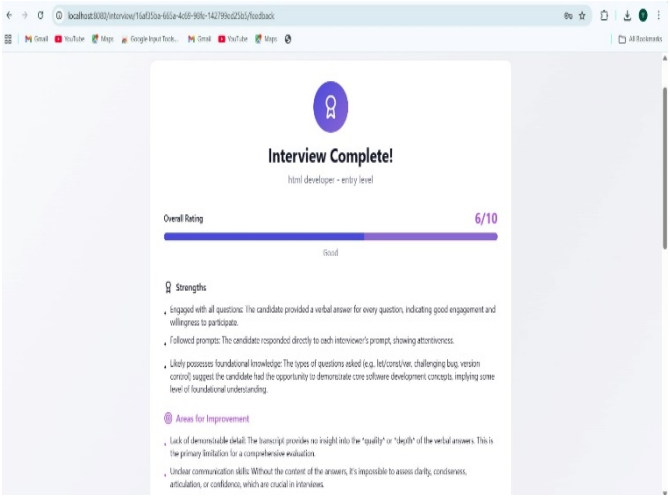


Fig.6Interview Feedback Generation

Fig.8 shows a summarized result of the candidate's performance after the completion of the mock interview session.The strengths section focuses on the positive points of the candidate's performance,responsiveness to the interview questions [3].The weaknesses of the candidate's performance, including their lack of in-depth knowledge and poor communication skills, giving a constructive analysis of areas that need improvement.

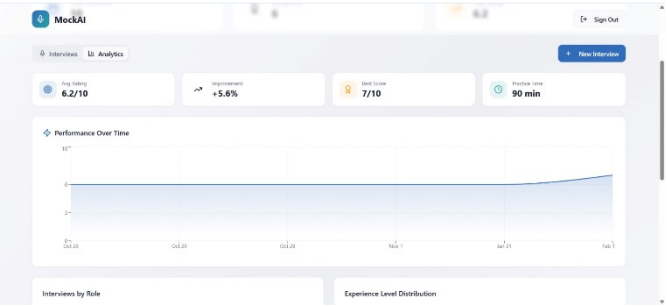


Fig.7User's interview performance metrics 1

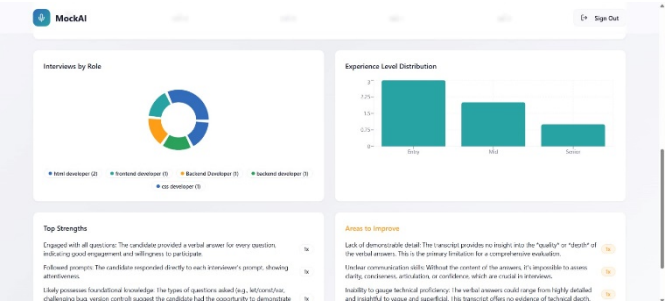


Fig.8User's interview performance metrics2

The Performance Analytics feature of the AI Mock Interview Platform is a data-driven summary of a candidate's progress in interview practice [6]. It also includes visual analytics such as performance over time graphs, interviews by role, and experience level distribution, which help monitor progress trends and areas of practice [6] .The analytics dashboard also enables self-evaluation and learning by providing candidates with valuable feedback from interview data.

VI. CONCLUSION

The MOCKAI- A personalized voice-conversational mock interview simulation system utilizing Large Language Models and real-time speech analyticsfor improved interview preparation. The system effectively overcomes the shortcomings of conventional mock interview approaches, including the absence of personalization, delayed feedback, and human evaluation [6] . By integrating adaptive question generation using LLMs, real-time speech interaction, and automatic evaluation, MOCKAI simulates a realistic and scalable environment for interview practice [20].

The developed system showcases the effective integration of contemporary web technologies and AI capabilities.The application of Next.js and Tailwind CSS facilitates a user-friendly and responsive interface, with Node.jshandling backend functionality.Supabaseservicesprovide secure user management and performance tracking [22]. Whisper AI automation enables seamless integration of speech input, transcription, AI evaluation, and feedback generation.

In summary, MOCKAI serves as a virtual AI interview tutor, filling the existing gap between traditional interview preparation strategies and AI-powered intelligent evaluation systems [15]. This study makes a significant addition to the emerging field of AI-supported learning and professional development, providing an accessible, adaptive, and user-friendly interview preparation platform.

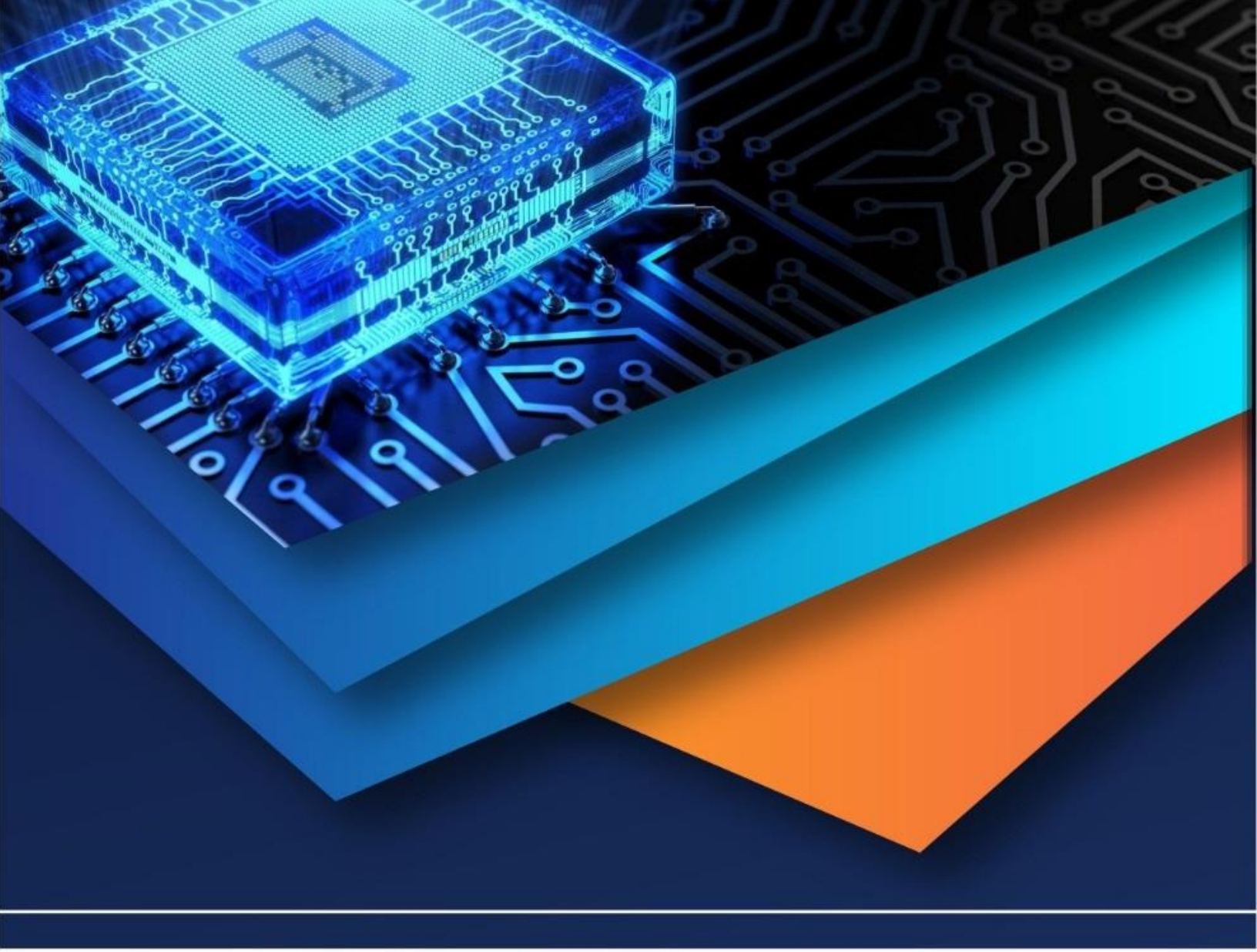
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