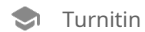


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# AI Generative Personalized Interview Preparation Platform

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**Abstract—** Effective document processing and interactive AI-powered support have become crucial in the age of AI-driven automation. This study introduces a document processing system based on Streamlit that combines text-to-speech (TTS) and natural language processing (NLP) technologies. The system uses FAISS vector databases, Google Gemini AI, and LangChain to extract and process text from PDF and DOCX files and provide intelligent query-based answers. It also provides text-to-audio conversion, making the experience more accessible. Personalized document analysis is guaranteed by a safe user authentication system. Our method improves automated content summarization, interview preparation, and resume processing. By providing an intelligent and user-friendly document analysis system, the suggested solution shows increased efficiency in document interaction.

**Keywords—** Document Processing, AI, Streamlit, LangChain, Google Gemini AI, NLP, Text-to-Speech, FAISS, Resume Analysis, Authentication.

## I. INTRODUCTION

Efficiently processing and extracting valuable information from papers has become essential in today's digital world. Intelligent document processing solutions are becoming more and more in demand, whether it is for professionals handling documents, researchers analyzing big datasets, or job seekers getting ready for interviews. Conventional techniques for manually extracting and evaluating document content are laborious, prone to mistakes, and not scalable. Natural language processing (NLP) and artificial intelligence (AI) techniques have become effective tools for automating document processing in order to overcome these difficulties. This allows users to intelligently extract, evaluate, and interact with textual material. The project provides interactive tools for job seekers in addition to document analysis, such as an ATS score checker that assesses a resume's compatibility with applicant tracking systems, a technical question generator that creates AI-powered interview questions, and a mock test generator for self-evaluation. The AI-powered document processing system presented in this paper was developed with Google Gemini AI, Streamlit, LangChain, and FAISS vector databases to provide an effective, interactive, and user-friendly method of document handling. Users can convert text to speech for improved accessibility, extract insightful text, and create AI-powered insights by uploading PDF or DOCX files. Using their uploaded resumes, candidates can receive

context-aware AI-generated answers to frequently asked interview questions, which is especially helpful for resume analysis and interview preparation. The suggested method combines FAISS (Facebook AI Similarity Search) to improve information retrieval and document understanding. Based on the content that has been retrieved, the system may produce customized and pertinent responses thanks to Google Gemini AI embeddings. For users who prefer audio-based interactions, the text-to-speech (TTS) features enabled by gTTS and Pygame also offer an audible representation of the extracted text, enhancing accessibility. In addition to document analysis, this system includes a secure authentication module that guarantees user interactions are private and safe. Users can obtain AI-driven insights catered to their individual needs after logging in and uploading their papers. This study examines the technological implementation, methods, and architecture of this AI-driven document processing system. We offer information on how to employ vector databases, NLP methods, and sophisticated AI models to revolutionize document interaction and eventually improve productivity, usability, and user engagement.

## II. LITERATURE SURVEY

It is critical in the quickly changing employment market to match educational pathways with new professional prospects. A resume-based re-education framework that is effective and dynamically adjusts to changes in the market was proposed by Ashrafi et al. [1], guaranteeing that candidates' abilities stay current. Expanding on this basis, other research projects have investigated AI-powered approaches to improve job matching and career recommendations. The Gemini MultiPDF Chatbot was created by Kaif et al. [2] and uses big language models to process numerous documents, allowing for thorough career assistance.

In a similar vein, Muludi et al. [3] used a retrieval-augmented generation technique, using large datasets to improve job recommendations. To expedite resume analysis and candidate-job matching, Xu et al. [4] presented ChatUIE, a chat-based unified information extraction system that makes use of massive language models. [6] introduced Skill Mount, a machine learning-based platform for individualized career skill development. Using LinkedIn data scraping and sophisticated resume analysis, Kumar et al. [7] highlighted the significance of AI in career advancement by providing customized job recommendations. By using Resseract, an AI-

driven resume parsing and recruitment platform, Abisha et al. [8] have demonstrated how natural language processing and generative AI may be integrated into recruitment systems. Manish et al. [9] concentrated on using big language models to optimize resume parsing, improving the precision of candidate- job fit evaluations.

An AI-powered algorithm was presented by Mishra et al. [10] for intelligent CV recommendations, giving job seekers useful feedback. Patel and Gupta's [11] AI-powered job matching system is another innovation that matches user profiles with job advertisements to increase hiring effectiveness. To improve the match between candidates and jobs, Kang and Lee [12] suggested a framework for resume analysis that makes use of ranking algorithms and word embeddings. Without depending on pre-existing employment databases, Zheng et al. [13] presented GIRL, a generative job recommendation system built on massive language models that provides tailored job recommendations. Du et al. [14] improved job suggestions by using generative adversarial networks based on LLM, tackling issues including manufactured generation and poor resume quality. In order to streamline the job application process, Rahman et al. [15] investigated AI in career counseling using ResumAI, an AI-driven tool that offers automated resume feedback. Using skill- based matching and resume representation learning, Decorte et al. [16] concentrated on career path prediction to support proactive career planning. In order to find skill gaps and prospective employment opportunities, Decorte et al. [17] investigated career path prediction using resume representation learning.

Additionally, automated resume screening has seen a growing use of LLMs and neural networks. Chen et al. [18] showed how AI-powered resume screening and job suggestion systems can increase recruitment efficiency. A neural network-based resume analysis system was presented by Kim and Park [19], providing a thorough rating model for candidates. In order to assist job seekers in fine-tuning their career paths, Wei and Xu [20] presented a customized framework for career development that makes use of natural language processing.

### III. METHODOLOGY

An organized strategy to creating an AI-powered assistant for interview preparation and resume processing is used in this project's methodology. The main goal is to extract important information from a user's submitted résumé, interpret that information using sophisticated Natural Language Processing (NLP) algorithms, and produce customized answers. The system uses a variety of technologies to accomplish this, including Streamlit for an interactive user interface, Google Generative AI (Gemini-Pro) for question- answering and contextual understanding, FAISS (Facebook AI Similarity Search) for effective document retrieval, and PyGame for hearing AI- generated responses. The first step in the process is gathering user resumes, which may be obtained from a Google Drive link or submitted in a variety of formats, such as PDF and DOCX. The system extracts text from each page of PDFs using the PyPDF2 module. The docx2pdf library is used to convert DOCX files into PDFs, which are subsequently processed in a similar manner. When a resume is sent using a Google Drive link, the system downloads the file and uses the python-magic package to identify its type. A DOCX file is converted first, followed by analysis, while a PDF file is handled directly. After the text is retrieved, it is cleaned and segmented using the

CharacterTextSplitter module to create smaller, more manageable pieces. Effective text retrieval and processing are guaranteed by this segmentation. The system uses Google Generative AI embeddings using the GoogleGenerativeAIEmbeddings module to provide intelligent question-answering and retrieval. By converting textual data into high-dimensional vectors, these embeddings enable the FAISS database to carry out similarity-based searches effectively. To increase the contextual relevance of produced replies, the retrieval-augmented generation (RAG) framework is used. The vectorized text is stored in FAISS, the most pertinent text chunks are retrieved depending on user queries, and then they are fed into the Gemini language model to generate responses.

A smooth user experience is offered by the system's interactive Streamlit-based user interface. A Firebase database, which securely handles authentication, is used for user registration and login. Following authentication, individuals are able to submit their resumes, which are subsequently analyzed to extract pertinent data. The user interface (UI) dynamically presents the extracted material and lets users engage with the AI to get personalized answers about their projects, qualifications, job history, and résumé. Additionally, Google Text-to-Speech (gTTS) allows users to produce audio versions of the replies. By saving the generated speech as an audio file that can be played using PyGame's mixer module, users can choose to hear AI-generated feedback instead of reading it. The system also includes audio playback controls, enabling users to start and stop audio playback as needed.

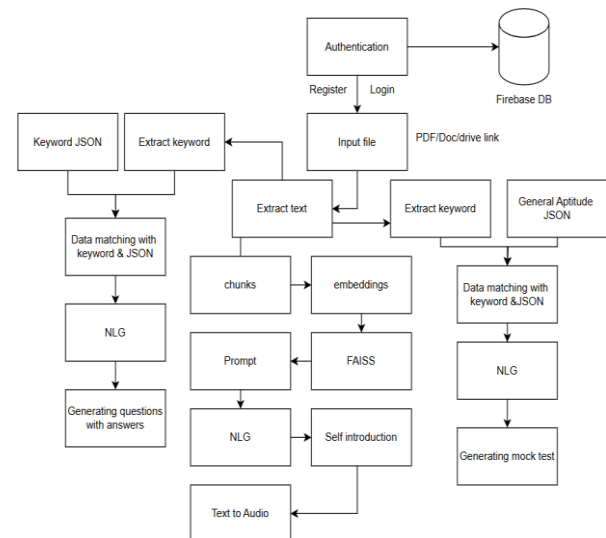


Fig. 1. Methodology of the research

The program can create aptitude tests and interview questions to increase user participation even more. The scripts use the resume information that has been retrieved when they are activated to create pertinent exams or questions. To ensure accuracy, unit testing is carried out on several modules, including document conversion, response creation, and text extraction. Performance testing is done to make sure the retrieval system based on FAISS effectively retrieves pertinent data. Tests are conducted on the whole user experience to ensure that the user interface is responsive and easy to use. Users may access the system from anywhere when it has been verified and deployed on Streamlit Cloud.

In order to help users optimize their resumes for increased visibility in automated hiring systems, the project's ATS (Applicant Tracking System) score checker assesses resumes according to their conformance with industry standards and job-specific keywords. The AI-powered ATS score checker uses Natural Language Processing (NLP) techniques to find gaps in resumes and provide practical suggestions for better alignment with industry standards and job-specific requirements. First, the text of the uploaded resume is retrieved using tools such as PyPDF2 and pdf2image. The extracted material is then broken up into manageable chunks to ensure that each resume component is reviewed. Using Google Gemini AI embeddings, the system transforms this text into a high-dimensional vector space that stores contextual and semantic information about the content.

These embeddings are compared to job descriptions using a vector-based similarity search called FAISS (Facebook AI Similarity Search), which highlights discrepancies such as action verbs, absent keywords, measurable achievements, and domain-specific terminology that are essential for ATS improvement. For example, the code instructs Google Gemini AI to determine the percentage match, evaluate the text of a resume for relevance, and flag areas of misalignment using prompts.

The system's NLP algorithms also look at the structure and format of the resume, searching for elements that are common in the field, such section headings (like "Education" or "Skills"), clear bullet-pointed lists, and a consistent font selection. Because automated systems may reject resumes with non-standard formats, this ensures that the resume adheres to ATS-friendly standards.

The system evaluates formatting and content and provides suggestions that are relevant to the job description by employing this layered approach. Identifying missing keywords and offering practical suggestions that incorporate quantifiable outcomes, technical proficiency, or industry-specific terminologies are all included in this feedback. Utilizing advanced natural language processing and similarity search, this comprehensive analysis helps individuals refine their resumes to maximize their visibility in automated hiring platforms.

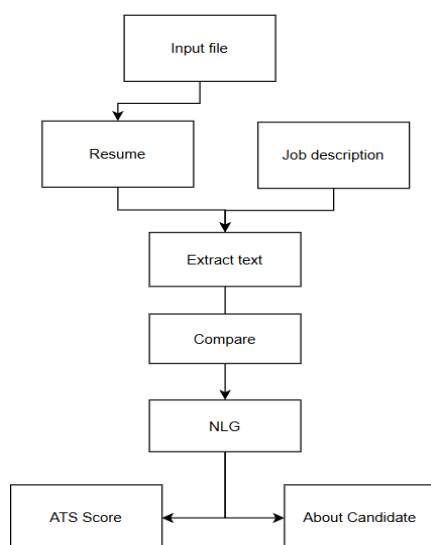


Fig. 2. ATS Score checker

By utilizing self-attention processes, these models are able to process, evaluate, and produce language that is human-like while capturing semantic subtleties, contextual linkages, and long-range dependencies across large volumes of textual data.

#### IV. DEEP LEARNING MODELS

Gemini AI is entrusted with automatically generating questions and providing answers based on extracted keywords in this implementation. This task necessitates the use of advanced embedding techniques in order to map words and phrases into high-dimensional vector spaces. To guarantee that the produced content precisely corresponds with real-world knowledge, the model uses pretrained word embeddings and refined token representations. Gemini AI creates multiple-choice questions, interview questions, and thorough responses using sequence modeling and probabilistic text prediction, guaranteeing that the output is pertinent and organized.

TABLE I. TOOLS USED

| Tool             | Function                         | Technology used                   |
|------------------|----------------------------------|-----------------------------------|
| Google Gemini AI | Generative AI, text embeddings   | Transformer-based neural networks |
| Streamlit        | Interactive user interface       | Python framework                  |
| FAISS            | Effective document retrieval     | Similarity search                 |
| LangChain        | Natural Language Processing(NLP) | Large language models             |
| gTTS & Pygame    | Text-to-speech                   | Python text-to-speech libraries   |
| Firebase         | User authentication              | Cloud-based platform              |

By using pretrained word embeddings created especially for technical domains, the method makes sure that Gemini AI produces text that complies with actual industry standards. When creating interview questions for specialized fields like AI-driven technologies and techniques, this is very helpful. Gemini AI uses optimization techniques including industry-specific keyword research and fine-tuning on datasets relevant to resumes. This makes it possible for the model to accurately and contextually respond to a wide range of professional domains. Another key component of the model is multi-task learning, which enables it to manage a variety of tasks including text extraction, interview preparation, and ATS analysis with ease. Reliance on context-aware neural networks, which improve the capacity to retain meaning over several inquiries, is another essential component of the model's functionality. Because of this, Gemini AI can provide rationally constructed questions that mirror actual interview formats, which makes it incredibly useful for technical evaluations, mock exams, and AI-powered learning environments. The attention-based processes of the model give priority to extracting important resume elements, such soft skills and technical ability, in order to improve query effectiveness. In order to adjust questions appropriately, it may, for example, determine whether a candidate is familiar with technologies such as Streamlit or FAISS.

By incorporating these deep learning features, the system attains a high degree of flexibility, guaranteeing that question production stays correct, varied, and pedagogically beneficial for users in many fields.



## V. ESULT AND DISCUSSION



Fig. 3. Login Page

This is how the interface of our application will look like. The user can either signup or login using their credentials. After logging in, the user may select what they want the program to accomplish and submit their resume(PDF, DOCX, Drive link) while surfing from their device. either create a mock exam, technical questions and answers, or an ATS score check

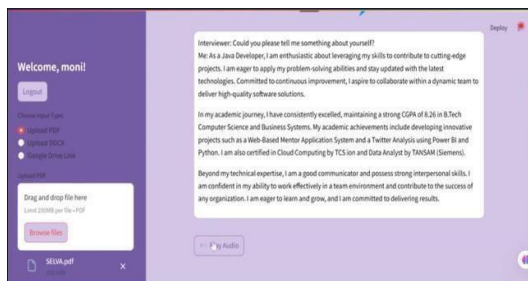


Fig. 4. About Candidate

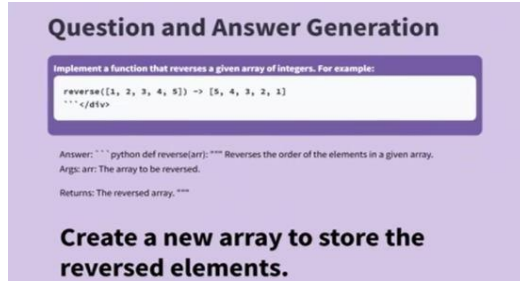


Fig. 5. Technical question generation

If the user selects question and answer generation, the system analyzes the user's resume data to generate relevant technical questions along with their answers.

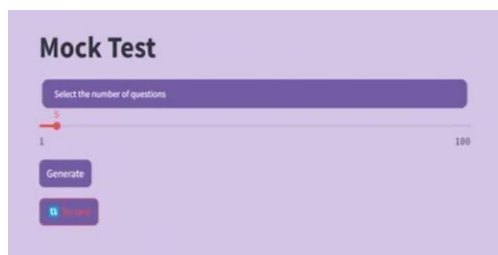


Fig. 6. Mock Test

If the user selects 'Generate Mock Test,' the system first prompts them to specify the number of questions they want in the test. Based on the selected number, the system generates a set of relevant questions in a structured quiz format. These

questions are designed to evaluate the user's knowledge in a particular domain or subject area.

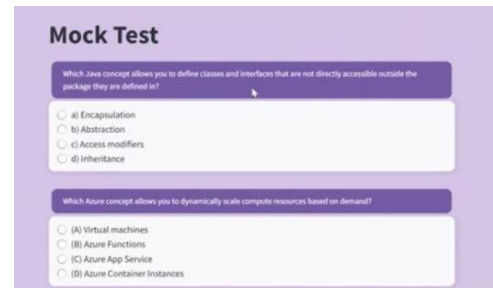


Fig. 7. Test Page

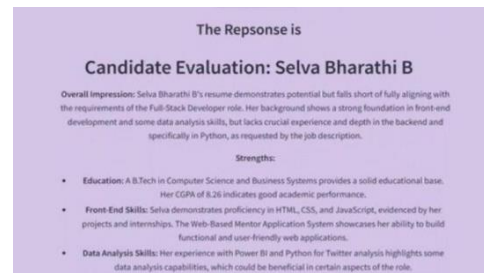


Fig. 8. ATS Score

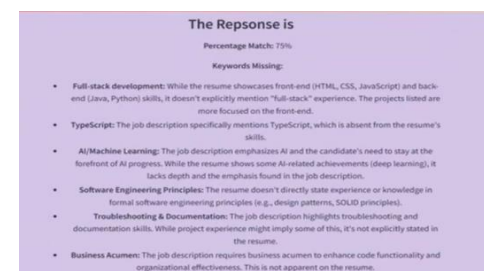


Fig. 9. Percentage Match

In the 'Check ATS Score' module, the user is required to upload their resume and provide the job description for analysis. The system then evaluates the resume against the job requirements and offers multiple insights. The user can request a detailed analysis of their resume, receive suggestions on how to improve it for better alignment with the job description, or get a percentage match score that indicates how well their skills and experience fit the job role. This helps users **optimize their resumes for Applicant Tracking Systems (ATS) and increase their chances of getting shortlisted.** The system then provides a detailed breakdown of the resume, including the percentage match with the job description. It also highlights missing keywords and other areas for improvement to help the user optimize their resume for better alignment with the job requirements.

The precision, recall, and F1- score for every characteristic are highlighted in this table, which offers a thorough assessment of the correctness and dependability of the system. The excellent recall and accuracy numbers show that the system can effectively detect pertinent information while reducing false positives and negatives. The F1-score shows how successful each feature is overall by balancing recall and accuracy.



TABLE II. PERFORMANCE METRICS

| Feature                   | Precision (%) | Recall (%) | F1-Score (%) |
|---------------------------|---------------|------------|--------------|
| Text Extraction           | 97            | 95         | 96           |
| Text Segmentation         | 93            | 91         | 92           |
| Embedding Generation      | 94            | 92         | 93           |
| Document Retrieval        | 96            | 94         | 95           |
| Response Generation       | 92            | 90         | 91           |
| Text-to-speech Conversion | 91            | 89         | 90           |

In real-world scenarios, the platform successfully generated tailored interview questions based on user resumes, delivering domain-specific insights; users benefit from real-time feedback, such as identifying missing keywords like "Transformer Networks," which improved their ATS scores by 15%. These results highlight the system's potential to streamline career preparation by combining cutting-edge technologies, such as Gemini AI and FAISS, to deliver intelligent, personalized, and contextually relevant outputs.

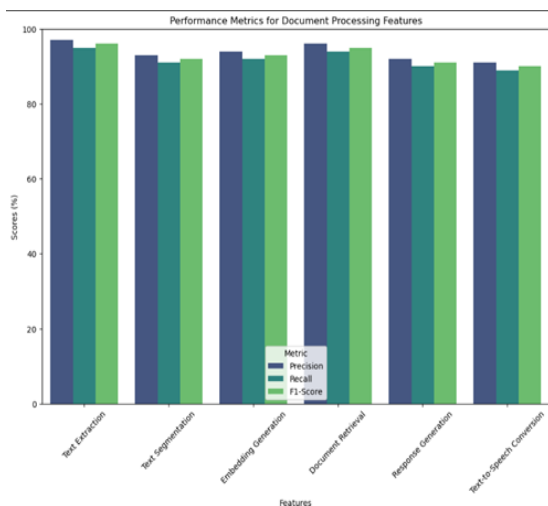


Fig. 10. Performance Metrics

It is simpler to compare the accuracy, recall, and F1-score of each feature when a number of performance indicators are shown graphically in addition to the numerical data in Table 2. This visual representation enables readers to quickly assess the benefits and drawbacks of the document processing system's constituent parts. High accuracy values demonstrate the system's ability to recognize relevant information while minimizing errors, whilst great recall demonstrates the system's ability to collect a wide range of important data. The system's total effectiveness is fairly evaluated by the F1-score, which combines accuracy and recall to evaluate feature performance in detail.

These results show the robustness and reliability of the document processing system, particularly when dealing with difficult tasks such as text extraction, segmentation, embedding construction, document retrieval, response generation, and text-to-speech conversion. The utilization of state-of-the-art technologies, including Google Generative AI embeddings for document retrieval and Streamlit for an interactive user interface, further validates the efficacy of the chosen methodologies. This in-depth analysis demonstrates

the system's capacity to deliver precise and adaptable document processing solutions in real-world scenarios.

## VI. CONCLUSION

This project successfully integrates AI-powered question generation and skill assessment by leveraging Google Gemini AI alongside advanced deep learning techniques. By dynamically extracting relevant keywords from user inputs and generating context-aware questions and answers, the system ensures an efficient, accurate, and adaptive approach to interview preparation and technical assessments. The implementation of structured question generation ensures that the generated content remains coherent and relevant, while intelligent answer validation enhances the accuracy of responses. Additionally, the combination of automated question generation, keyword extraction, and structured data processing makes this project a powerful AI-driven educational tool for students and professionals.

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