

ABOUT CLIENT

- A leading firm in talent acquisition, providing easy access to candidate data analysis to simplify recruitment.
- They offer a platform for their users to search for candidates using natural language and get accurate answers with resume links, improving hiring decisions.
- The company processes over 6,000 resumes daily, helping its customers make faster, informed recruitment choices.

PROBLEM STATEMENT

As their business grew and technology evolved, our client wanted to modernize their recruitment process through Al. The overall objective was to develop a natural language search engine capable of processing job descriptions(JDs), retrieving resumes from a designated data source, and providing users with contextually relevant responses and resume links.

Resume Mismanagement:

The company struggled with organizing, categorizing, and tracking a large volume of resumes effectively.

Document Scanning:

They faced difficulties quickly scanning resumes and extracting key information efficiently.

Matching Job Descriptions:

The client struggled to match job descriptions to candidate resumes based on skills, experience, and qualifications.

Complex Queries:

The company faced challenges interpreting nuanced user queries to provide accurate responses.

Response Generation:

It had trouble generating responses that included both query results and relevant resume links.

SOLUTION

Our Al developers worked closely to modernize the client's recruitment process by implementing Al as a solution. Here's how we addressed the challenges and built an efficient system:

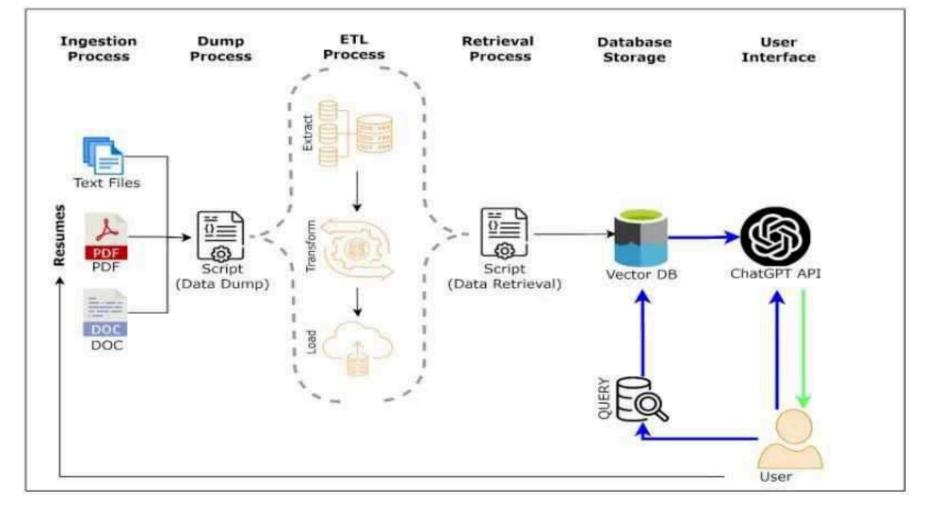
Resume Data Organization: We automated the organization, categorization, and tracking of candidate data, developing a structured database for easy information retrieval.

NLP and Information Extraction: Advanced NLP techniques were implemented to quickly scan resumes and extract key details such as skills, experience, and qualifications.

Al-backed Matching Algorithm: Our team developed an Al-driven algorithm to match job descriptions with candidate resumes, ranking and prioritizing the best-fit candidates.

Nuanced Query Understanding: We enhanced the system's ability to understand and process nuanced queries, ensuring precise and relevant responses to user requests. Contextual Response Generation: We created a response system that generates accurate, contextually relevant replies and provides resume links for seamless recruitment.

Architectural Solution: We integrated different types of data (resumes and job descriptions) and stored it in one place. Plus, we cleaned up the data and put it in a special database that's easy to search, then connected this database to ChatGPT so users could ask questions and get answers quickly.



BUSINESS IMPACT

Our AI developers successfully implemented solutions that brought significant improvements to the client's recruitment process:

- Achieved a 25% reduction in recruitment timelines, saving both time and effort in sourcing candidates.
- Saw a 30% improvement in matching job descriptions with relevant resumes, enhancing the quality of candidate selections.
- Enabled users to access better contextual insights, leading to more informed decision-making during talent acquisition.
- Helped 75% of users generate natural language queries, resulting in 50% more accurate and relevant responses.
- Improved data handling efficiency by 40%, with a 25% increase in user satisfaction due to intuitive interfaces and seamless system performance.

Our AI solution used tools like LangChain, Weaviate, ChatGPT API, Python, and document handling technologies to improve the client's recruitment process. These tools helped us find candidates faster and match them to jobs better. This made the client's recruitment process more efficient and user-friendly.

Artificial Intelligence (AI), Large Language Model (LLM), Natural Language Processing (NLP), Predictive Analytics Europe Human Resources (HR), IT and Technology Support, Strategy and Planning

Staff/Resource Augmentation

