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Business Domain
Recruitment and Human Resources

Project Type
Global web platform with cloud based microservices backend

Accelerating Job Posting with Generative AI and AWS Bedrock Agent

Client

A recruitment platform designed to connect job seekers with employers by leveraging advanced search and matching capabilities. The platform focuses on aligning candidates' skills with job requirements to improve the accuracy and efficiency of the hiring process.

Project

Implemented an AI-powered agent using Amazon Bedrock to automatically extract structured job fields from unstructured user input and crafting clear, professional job descriptions by interpreting user intent and enriching the content.

Objective

The goal was to enhance the user experience and streamline the job posting process by allowing users to simply upload a job description file or write a short free-text description, from which all necessary structured fields could be automatically extracted and used to generate a ready-to-publish job post.

Team Reinforcement

Delivered strategic AI/ML, backend, and architecture guidance to build and integrate AWS tools, including Bedrock Agent, and resulting in accurate field extraction, streamlined job creation, and a secure, scalable solution on AWS.

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Challenge

Users faced a time-consuming process when posting jobs, requiring manual input of multiple structured fields despite already having this information in free-text form. This led to friction, incomplete listings, and inefficiencies, especially for users managing multiple job posts or lacking technical skills. The challenge was to simplify this process without sacrificing data quality or platform standards.

Customer faced a manual, time-consuming job posting process that required filling multiple structured fields despite having job details in unstructured formats.

Customer faced difficulties creating accurate and complete job listings quickly, especially for non-technical users, resulting in lower engagement and fewer published jobs.

Quick Facts

- 73% reduction in time-to-publish job listings
- AI-powered agent built using Amazon Bedrock
- Improved user completion rate by 40%, lowering drop-offs during the job posting process
- Fully serverless architecture using AWS Lambda & DynamoDB

Technologies

AWS / Amazon Bedrock Agent / Java / Python / Amazon Nova

Solution

★ 01

Reduced time-to-publish by 73%, enabling users to create job listings in under 2 minutes on average.

★ 02

Leveraged AWS Bedrock Agent to deliver intelligent, context-aware parsing and content generation, significantly enhancing automation quality.

★ 03

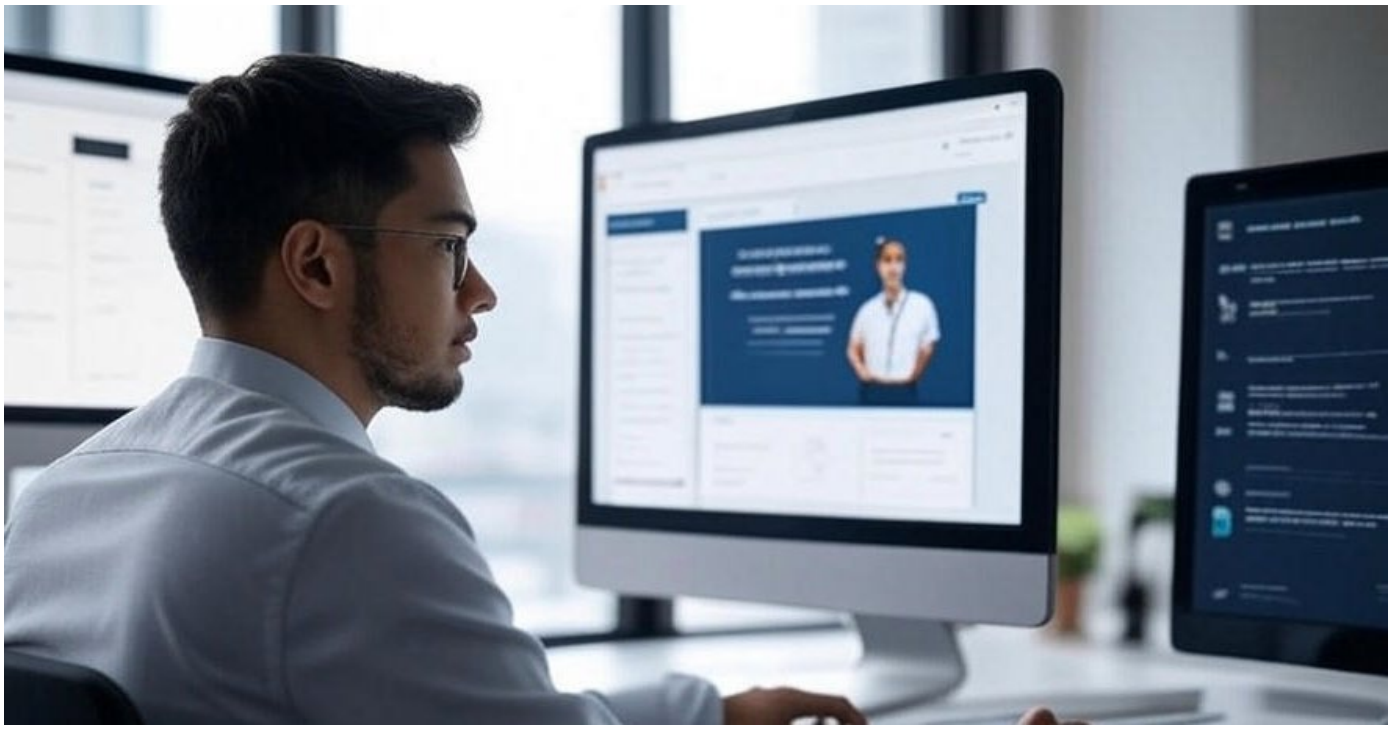
Achieved over 80% accuracy in extracting key job fields from unstructured inputs.

★ 04

Increased accessibility, with a 50% rise in job postings from non-technical users.

★ 05

Scalable serverless architecture handled a 3x surge in job posting volume without downtime.



Benefits and Results

- Simplified job posting by enabling users to create listings from free-text or file uploads, increasing completion rates and accessibility for non-technical users.
- Improved job listing quality and consistency through automated extraction and standardization of key job fields, enhancing search accuracy and candidate matching.
- Delivered a scalable, serverless solution that seamlessly supports increased job posting volumes while reducing operational overhead.

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Intetics Inc.
Phone: +1-239-217-4907
www.intetics.com

Techstack:

AWS, Python, Java, FMs

Team: 5+

Architect,
Backend Engineers,
QA Engineers,
DevOps Specialist