

JETLOUGE TRAVELS T&T2 HR1: AI-BASED RÉSUMÉ FILTERING FOR APPLICANT MANAGEMENT USING GPT-4-TURBO

ABSTRACT

AUTHORS

Ceejay Encarnacion
Sherwin Mae Lapid
Aurea Crystal Mae Lebite
Renzemark Olea
Christian Oliva

RESEARCH ADVISER

Aldrine B. De Guzman

AFFILIATION

Bestlink College of the
Philippines

DISCIPLINE

IT & Management

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Growth in the travel and tours industry increases the need for efficient and reliable recruitment processes. Human-resource departments may encounter difficulty managing large applicant pools, screening résumés consistently, and organizing recruitment activities. Jetlounge Travels T&T2 HR1 was developed as a web-based human-resource management system using GPT-4-Turbo to support résumé filtering and applicant management. The system was developed using descriptive and developmental approaches. A microservices architecture enabled modules to function independently while exchanging data within the system. Agile Scrum guided iterative development, testing, and feature refinement. GPT-4-Turbo was integrated through an application programming interface to analyze résumés against specified job qualifications. Applicant profiles, interview schedules, performance records, and recognition logs were stored in a centralized database, and the modules were tested for data flow and system performance. The system was reported to make résumé screening faster and more organized, reduce manual workload, and improve operational efficiency. Integrated modules supported applicant management, recruitment, onboarding, performance management, and social recognition. The study also noted that AI filtering could miss qualified applicants, underscoring the need for human review. No quantitative performance, accuracy, fairness, or user-evaluation results were provided. The developed system illustrates how AI-assisted résumé screening may support recruitment workflow and consistency while retaining human judgment for final decisions. Deployment should include human oversight, validation against job-related criteria, privacy protections, auditability, and continuing evaluation for disparate errors or exclusion of qualified applicants.

RECOMMENDED CITATION

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