# **PROJECT DOCUMENTATION**

### **Resume Screening Automation with UiPath Studio**

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# 1. Project Overview

This project aims to automate the resume screening process using UiPath Studio Web and Chat GPT. The automation will streamline the filtering and processing of resumes, allowing HR departments to save time and improve efficiency.

# 2. Objectives

To automate the extraction of relevant information from resumes.

To integrate Chat GPT for intelligent analysis and scoring of resumes.

To set up automated email responses for shortlisted candidates.

## 3. Technologies Used

*UiPath Studio Web*: For building the automation workflows.

*Chat GPT API:* For analyzing and scoring resumes based on predefined criteria.

**JSON**: For data interchange between systems.

**Email Automation**: For sending notifications to candidates.

### 4. Architecture

*Input*: Resumes received via email.

**Process**: Read emails and filter attachments.

Extract content from resumes.

Use Chat GPT for analysis.

Score resumes based on criteria.

#### Output:

Shortlisted candidates notified via email.

Reports generated for HR review.

## 5. Implementation Steps

#### Email Setup:

Configure email filters to retrieve resumes.

### Resume Processing:

Use UiPath to download and read resume files.

Deserialize JSON data for processing.

#### **Chat GPT Integration:**

Send resume data to Chat GPT for analysis.

Retrieve and store the scoring results.

#### **Email Notifications:**

Set up automated replies for shortlisted candidates.

## 6. Error Handling

Implement try-catch blocks in UiPath workflows to handle exceptions.

Log errors for further analysis and debugging.

Notify the user in case of critical failures.

### 7. Testing

Conduct unit tests for each workflow component.

Perform integration testing with the Chat GPT API.

Validate email notifications and ensure correct recipients.

## 8. Deployment

Deploy the UiPath automation in a production environment.

Monitor the performance and adjust workflows as necessary.

### 9. Future Enhancements

Incorporate machine learning algorithms for improved resume scoring.

Expand the system to support additional file formats.

Enhance user interface for HR personnel to review resumes more easily.

#### 10. Real Life Use Cases

# • HR Department Overload:

**Problem**: HR departments often struggle with a massive influx of resumes, making manual screening time-consuming and inefficient.

**Solution**: The AI bot can quickly scan resumes, extract relevant information, and filter out candidates who don't meet the basic requirements. This frees up HR professionals to focus on more strategic tasks and candidate interviews.

# • Bias Mitigation:

**Problem**: Human bias can unintentionally influence the recruitment process, leading to unfair hiring practices.

**Solution**: An AI-powered bot can objectively evaluate resumes based on predefined criteria, minimizing the impact of personal biases and ensuring a more equitable selection process.

# • Global Talent Acquisition:

**Problem**: Companies often need to recruit talent from diverse locations worldwide, making it challenging to assess candidates with varying qualifications and backgrounds.

**Solution**: The AI bot can be trained to understand different resume formats, languages, and educational systems, enabling companies to identify qualified candidates from a global pool.