Title: Generative AI-Powered Resume Analyzer

Objective:

To demonstrate the potential of Generative AI and associated techniques in automating resume screening and do necessary pre-analysis for shortlisting. The solution should:

1. Parse and extract mandatory fields from resumes.
2. Score resumes based on the extracted data.
3. Handle batch processing of multiple resumes efficiently.
4. Output results in a structured format (Excel).

Requirements:

1. **Input:**
   - A set of resumes in PDF format (preferably exposed in Google drive).
2. **Mandatory Columns to be extracted for Output:**
   - **Name**
   - **Contact details : as in the resume**
   - **University**
   - **Year of Study**
   - **Course**
   - **Discipline**
   - **CGPA/Percentage**
   - **Key Skills**
   - **Gen AI Experience Score**
   - **AI/ML Experience Score**
   - **Supporting Information** (e.g., certifications, internships, projects)
3. **Expected Deliverables:**
   - An Excel file containing the extracted data for each resume.
   - Columns should include mandatory fields and any additional insights.
   - Score can have values 1-3, where 1 – Exposed, 2 – Handson and 3- worked on advanced areas such as Agentic RAG, Evals etc. Similarly for AI/ML experience score as well.
4. **Features to Include:**
   - Use of advanced Generative AI with higher accuracy and context-aware extraction.
   - Few-shot learning for adaptability to variations in resume formats.
   - Batch processing capability for up to 100 resumes at a time.

Evaluation Criteria:

Key differentiators if you want to get qualify – Speed, Quality, Scale, Accuracy and Creativity.

1. **Generative AI Integration:**
    - Demonstrate the use of GPT models or equivalent.
    - Showcase how solution is retrieving relevant contextual data to complement extraction.
2. **Accuracy:**
    - Accuracy of field extraction and completeness of mandatory columns.
    - Ability to handle varying formats and layouts.
3. **Batch Processing Efficiency:**
    - Demonstrate processing of multiple resumes and timely output generation.
4. **Scalability:**
    - Include creative approaches for scaling the solution for larger payloads.
    - Describe how this solution could handle resumes for higher payloads
5. **Creativity and Innovation:**
    - Innovative use of Generative AI features.
    - Additional insights or value-added features in the output file (e.g., inferred career potential, role match scores).
6. **Output Quality:**
    - Neatly formatted Excel output.
    - Logical and consistent scoring mechanism for ranking candidates.

Submission Guidelines:

1. **Code Submission:**
    - Provide your source code in a GitHub repository or as a downloadable file.
    - Include clear instructions for running the code.
2. **Documentation:**
    - A brief explanation of your approach (PDF or markdown file).
    - Highlight the use of Generative AI and any innovative features implemented.
3. **Output File:**
    - Submit an Excel file containing results for a sample set of resumes (at least 10).
4. **Deadline:**
    - 19th Jan 2025, 10 PM IST
5. **Submission Format:**
    - Zip file containing code, documentation, and output file.
    - Or GitHub repository link with organized folders for code and output.

Additional Notes:

- Be creative! Add features that could enhance the solution's practical utility.
- Focus on a user-friendly and efficient design.
- This assignment plays a critical role in shortlisting candidates for the internship.