**Goal:**

* Develop a system that can effectively evaluate resumes against job descriptions, considering factors like experience, technical skills, and ATS keyword matching.

**Approach:**

* Utilize a Large Language Model (LLM) to process and analyze both job descriptions and resumes.
* Extract relevant information from resumes, such as experience, skills, and qualifications.
* Compare extracted information from resumes against the requirements specified in job descriptions.
* Calculate a "match score" based on the level of alignment between the resume and job description.
* Provide recommendations for potential job positions based on the match score and extracted information.

### **Main Components**

1. **Resume Parsing:**
   * Use natural language processing techniques to extract structured data from resumes, including:
     + Personal information (name, contact details (only name of the place))
     + Education (degrees – Bachelor/Masters/Phd)/ Field (Bcom,BSc, Engg)
     + Work experience (job titles, companies, dates, responsibilities)
     + Skills (technical, soft)
     + Certifications
2. **Job Description Parsing:**
   * Extract key requirements from job descriptions, such as:
     + Job title
     + Essential skills
     + Preferred qualifications
     + Experience level
3. **Experience Calculation:**
   * Determine the years of experience for each skill or qualification mentioned in the resume based on the work experience section.
4. **Keyword Matching:**
   * Use the LLM to identify keywords in both the resume and job description.
   * Calculate a similarity score based on the number of matching keywords.
5. **Match Scoring:**
   * Develop a scoring system to evaluate the overall match between the resume and job description. Consider factors like:
     + Experience match
     + Skill match
     + Keyword match
     + Any additional criteria specific to the domain.
6. **Job Position Recommendations:**
   * Based on the match score and extracted information, suggest potential job positions that align well with the candidate's qualifications.

**Final Output:**

1. **Name:**
2. **Total Experience:**
3. **Relevant Experience:**
4. **Location: Hyd, BLR**
5. **Required Skills (Data Science) - Python, Cloud (AWS, Azure, GCP, Others), Deep Learning, NLP, GenAI, Machine Learning**

**Logic to Build:**

1. **Calculate total years of experience & relevant Experience + Which skills (Ex. If CNN is mentioned but DL is not mentioned in the CV the from that CCN model can understand that the candidate has experience in DL)**
2. **If no month has been mentioned, the consider the date from January (ex. January 2023)**
3. **Do not consider certification or courses completed, only Hands on Experience**
4. **Make the model highly intelligent to recognize dummy projects**