



KHULNA UNIVERSITY

PROJECT PROPOSAL ON

# Resume Evaluation Engine

---

Sumaiah Binta Musa  
190205

||  
||

Istyaque Ahammed  
200240

# Resume Evaluation Engine

AI-Based Resume Evaluation Engine is used for finding top matching resumes by comparing them with job descriptions. It decreases the recruiter workload and makes the recruitment process effective.

This project takes Job Description and Employee Resumes as input in pdf as well as docs format and makes a comparison between these two and ranks projects according to that.

We will also use artificial intelligence to detect which institution the user's curriculum vitae applies to by uploading the user's curriculum vitae file. This System is used for finding top matching resumes by comparing them with job descriptions. It decreases the recruiter workload and makes the recruitment process effective.

## Technology:

HTML, CSS, Bootstrap, Python

## 10 weeks plan:

Here's a 10-week plan for developing the Resume Evaluation Engine:

### **Week 1-2: Project Planning and Requirements Gathering**

- Define the scope and objectives of the project.
- Gather requirements from stakeholders to understand their needs and expectations.
- Create a detailed project plan, including milestones and deliverables.

### **Week 3-4: Data Collection and Preparation**

- Identify and collect a diverse set of sample resumes to train and test the engine.
- Preprocess and clean the resume data to remove any irrelevant or sensitive information.
- Annotate the data, tagging key elements such as skills, experience, education, and certifications.

### **Week 5: Resume Parsing and Information Extraction**

- Implement a resume parsing module to extract relevant information from the resumes, such as name, contact details, work history, education, etc.

### **Week 6: Keyword Matching and Skill Assessment**

- Develop a keyword matching algorithm to identify specific skills and qualifications in the resumes.

### **Week 7: Experience and Education Analysis**

- Design algorithms to analyze the candidate's work experience, including job titles, responsibilities, and achievements.
- Implement a module to verify and assess the candidate's educational background and certifications.

### **Week 8: Formatting and Structure Analysis**

- Develop a component to check the formatting and structure of the resumes, ensuring adherence to standard guidelines.
- Implement algorithms to assess the readability and consistency of the resumes.

### **Week 9: Integration and Testing**

- Integrate all the developed modules into the main Resume Evaluation Engine.
- Conduct rigorous testing to identify and fix any bugs or issues.

### **Week 10: Customization and Deployment**

- Provide customization options for clients to tailor the engine to their specific requirements.
- Deploy the Resume Evaluation Engine to a production environment.