**Artificial Intelligence and Machine Learning (AIML) – Project**

**Names: Sec – 1 A**

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**Problem Statement: AI-based resume builder for enhancing job prospects.**

In the highly competitive job market, where Applicant Tracking Systems (ATS) are commonly used to filter resumes, job seekers often struggle to create resumes that effectively highlight their skills, experiences, and achievements in a way that aligns with specific job descriptions. Traditional resume-building methods may not adequately address the nuances of modern job postings, leading to resumes that fail to pass ATS filters or impress hiring managers. This necessitates the development of AI-based resume builders that can analyse job descriptions, suggest relevant keywords and phrases, and tailor resumes to meet the specific requirements of the job market, thereby enhancing the job seeker's chances of securing interviews.

**Dataset:**

1. **Title:** Real-time content analysis

**Source:** Rezi

1. **Title:** GetData.IO - Resume Builder

**Source:** Resume Datasets

**Algorithm:**

1. **Resume Datasets:**

**Source:** Collect resumes from various sources such as job portals, career websites, and publicly available datasets.

**Format:** Ensure resumes are in a machine-readable format like PDF or text files.

1. **Job Description Analysis Algorithms:**

These algorithms analyse job descriptions to tailor resumes to specific job requirements, ensuring that the resume includes relevant skills, experiences, and achievements that match the job posting.

1. **Content Generation Algorithms:**

These algorithms generate professional content for different resume sections, such as summaries and bullet points highlighting achievements and skills. They often use natural language processing (NLP) to create human-like summaries and descriptions.

1. **Real-Time Feedback and Suggestions Algorithms:**

These algorithms provide instant feedback and suggestions to improve the quality and effectiveness of the resume, helping users refine their resumes for better results.

1. **Personalization Algorithms:**

These algorithms analyse existing resumes and provide personalized suggestions on how to tailor the resume to specific job descriptions, helping users avoid overused phrases.

**Expected Outcomes:**

The expected outcomes of using an AI-based resume builder include enhancing the quality and effectiveness of resumes, thereby increasing the chances of securing job interviews. AI resume builders utilize advanced algorithms to analyse job descriptions and tailor resumes to include relevant keywords and phrases, optimizing them for Applicant Tracking Systems (ATS) which companies commonly use to screen resumes. These tools also provide personalized suggestions and feedback, helping users refine their resumes to highlight their skills and achievements effectively. Additionally, AI-generated resumes often maintain a consistent tone and writing style, which can be beneficial for maintaining a professional appearance across different sections of the resume. Overall, these features collectively contribute to the effectiveness of AI-based resume builders in helping job seekers create more competitive and effective resumes.