**Project Initialization and Planning Phase**

|  |  |
| --- | --- |
| Date | 12-07-2024 |
| Team ID | xxxxxx |
| Project Title | JobSwift: Accelerating Careers With AI-Powered Applications Using Palm's Text-Bison-001 |
| Maximum Marks | 3 Marks |

**Project Proposal (Proposed Solution) template**

The proposal report aims to revolutionize the job application process using AI technology, enhancing efficiency and user experience. It addresses the challenges faced by job seekers, promising improved application materials, personalized support, and a smoother career advancement journey. Key features include AI-driven resume optimization, personalized cover letters, and interview preparation tools.

|  |  |
| --- | --- |
| **Project Overview** | |
| Objective | The primary objective is to streamline the job application process by leveraging advanced AI techniques, ensuring users receive personalized and optimized application materials. |
| Scope | The project comprehensively assesses and enhances the job application process, incorporating AI to provide tailored support for users at different career stages, including recent graduates, career changers, and professionals seeking advancement. |
| **Problem Statement** | |
| Description | Addressing the challenges and inefficiencies in the current job application process, which affect user satisfaction and success in job applications. |
| Impact | Solving these issues will result in improved user satisfaction, higher success rates in job applications, and overall enhancement in the job application journey, contributing to users' career growth and success. |
| **Proposed Solution** | |
| Approach | Leveraging machine learning (ML) to analyze and generate effective application materials, fostering a dynamic and user-centric job application experience. |
| Key Features |  **ML-powered resume optimization:** Utilize ML algorithms to analyze successful resumes in your target field and suggest improvements to your resume content, formatting, and keyword optimization.   **Personalized cover letter generation:** Train an ML model on high-performing cover letters to personalize cover letters that highlight relevant skills and experiences for each specific job application.   **Intelligent interview preparation:** Employ natural language processing (NLP) to curate a dynamic pool of common interview questions tailored to your industry and position. Provide interview strategies and practice simulations using NLP-powered chatbots. |

**Resource Requirements**

|  |  |  |
| --- | --- | --- |
| **Resource Type** | **Description** | **Specification/Allocation** |
| **Hardware** | | |
| Computing Resources | CPU/GPU specifications, number of cores | 2 x NVIDIA V100 GPUs |
| Memory | RAM specifications | 8 GB |
| Storage | Disk space for data, models, and logs | 1 TB SSD |
| **Software** | | |
| Frameworks | Python frameworks | Streamlit |
| Libraries | Additional libraries | google-generativeai  altair  streamlit  google-ai-generativelanguage  google-api-core  google-auth5  google-generativeai  googleapis-common-protos |
| Development Environment | IDE, version control | VS code, Git |
| **Data** | | |
| Data | Source, size, format | e.g., Kaggle dataset, 10,000 csv |