# Project Initialization and Planning Phase

| Date | 27 July 2024 |
|---|---|
| Team ID | SWTID1719935402 |
| Project Title | CareerCraft-ATS-Optimized-Resume-Analyzer-using-Gemini-Model |
| Maximum Marks | 3 Marks |

**Project Proposal (Proposed Solution) template**

This project proposal outlines a solution to address a specific problem. With a clear objective, defined scope, and a concise problem statement, the proposed solution details the approach, key features, and resource requirements, including hardware, software, and personnel.

| Project Overview | |
|---|---|
| Objective | To create an optimized ATS Friendly Resume Analyzer using Google Gemini AI Model |
| Scope | Utilizing the Google's AI model helps us to save time by optimizing keyword matching, formatting and detection sections for enhancing the compatibility. |
| **Problem Statement** | |
| Description | Most of the resume documents get rejected automatically due to poor formatting, missing keywords and incompatibility. |
| Impact | Solving this problem will significantly improve the job application success rates by ensuring resumes are properly formatted, keyword-optimized, and ATS-compatible. |
| **Proposed Solution** | |
| Approach | Utilizing the Google's Generative AI model – Gemini by using it's API to create the application. |
| Key Features | Gemini AI is very advanced generative AI model and it is easy to integrate with any kind of application formats. |

## Resource Requirements

| Resource Type | Description | Specification/Allocation |
|---|---|---|
| **Hardware** | | |
| Computing Resources | CPU/GPU specifications, number of cores | CPU – 6 core 12 threads AMD Ryzen or Intel Core CPU |
| Memory | RAM specifications | Minimum – 8 GB Recommended – 16 GB |
| Storage | Disk space for data, models, and logs | Required – 1 GB |
| **Software** | | |
| Frameworks | Python frameworks | StreamLit UI |
| Libraries | Additional libraries | google.generativeai, os, PyPDF2, PIL |
| Development Environment | IDE, version control | Jupyter Notebook via Visual Studio Code |
| **Data** | | |
| Data | Source, size, format | Few resume templates and examples |