

Project Initialization and Planning Phase

Date	9 July 2024
Team ID	SWTID1720007847
Project Title	GeminiDecode: Multilanguage Document Extraction by Gemini Pro
Maximum Marks	3 Marks

Project Proposal (Proposed Solution) report

The proposal report aims to improve document extraction by using machine learning and natural language processing algorithms with the Gemini Pro model. It increases efficiency of operations by saving time on translation and summarization. Key features include a generative AI model and answering queries made by the user.

Project Overview	
Objective	The primary objective is to transform document extraction by using machine learning and natural language processing algorithms with the Gemini Pro model.
Scope	The project aims to enhance operational efficiency in the legal sector, financial institutions and the healthcare industry by automating information extraction from important documents in different languages.
Problem Statement	
Description	Addressing the need to automate document extraction in industries that work internationally with different languages, thus saving time and improving efficiency.
Impact	Solving these issues will result in improved operational efficiency and enhancement in information extraction, contributing to customer satisfaction and organizational success.
Proposed Solution	
Approach	Employing a generative AI model that uses machine learning and natural languages processing techniques to create a multilingual extraction system.

Key Features	<ul style="list-style-type: none"> -Implementation of Gemini Pro for document extraction -Q&A for users to ask more questions about the uploaded document
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Resource Requirements

Resource Type	Description	Specification/Allocation
Hardware		
Computing Resources	CPU/GPU specifications, number of cores	8 core processor
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, python-dotenv, langchain, PyPDF2, chromadb, faiss-cpu
Development Environment	IDE	Visual Studio Code
Data		
Data	Source, size, format	10 documents from various government databases