



Project Initialization and Planning Phase:

Date	09 July 2024	
Team ID	SWUID20240028082	
Project Title	GeminiDecode: Multilanguage Document Extraction by Gemini Pro	
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.

The GeminiDecode Project: Developing a general artificial intelligence model for the extraction of accurate information from document content written in several languages and interpreting them	
intelligence model for the extraction of accurate information from	
Theses covered under the scope include: 1. Development of the Gemini Pro Model for Document Extraction. 2. Multi-lingual support with languages like English, Spanish, French, German, Chinese, and Arabic. 3. Utilize NLP that interprets and understands documents as being vastly text-based. 4. Easy access and use through the interface 5. Model Deployment into real-world Business, Academic, and Government Applications. Problem Statement	





Description	Documents in the modern, highly globalized business environment are usually in several different languages—which is the main hurdle faced by an organization interested in an appropriate processing and interpretation of such documents. Most traditional document	
	extraction tools, configured with some specific languages, usually require intensely laborious manual translation and extraction.	
Impact	Implications of solving this problem would be: 1. Improved efficiency of multilingual document processing. 2. Reduced requirement for manual efforts in the translation and extraction process. 3. Enhanced access to information across languages. 4. Improved efficiency and effectiveness of organizations working with international documentation. Proposed Solution	
Approach	The solution to be recommended would be to develop Gemini Pro with cutting-edge state-of-the-art NLP techniques and machine learning algorithms for extracting and interpreting information in documents in multiple languages. It consists of the following: 1. Gathering diversified data of documents in different languages. 2. Processing data for consistency and quality. 3. Training a Deep-Learning-Based Multilanguage Document Extraction Model. 4. It will then validate the model for its performance through rigorous testing. 5. Deploying the model and integrating it with an intuitive user interface.	





Key Features	 Multilanguage Support: It supports documents in multiple languages. High Accuracy: This implies accurate extraction of
	information, made possible through advanced NLP techniques during information extraction.
	3. Scalability : The system has the capability of handling a large number of documents.
	4. User-Friendly Interface: Simple and intuitive, incomprehensive interface for easy access and operation.
	5. Real-Time Processing: Quick and accurate results in view of the demand expressed by the user.

Resource Requirements:

Resource Requirements.				
Resource Type	Description	Specification/Allocation		
Hardware				
Computing Resources	CPU/GPU specifications, number of cores	e.g., 2 x NVIDIA V100 GPUs		
Memory	RAM specifications	e.g., 8 GB		
Storage	Disk space for data, models, and logs	e.g., 1 TB SSD		
Software				
Frameworks	Python frameworks	e.g., Flask		
Libraries	Additional libraries	e.g., scikit-learn, pandas, numpy		
Development Environment	IDE, version control	e.g., Jupyter Notebook, Git		
Data				
Data	Source, size, format	e.g., Kaggle dataset, 10,000 images		