Project Initialization and Planning Phase

Date	20 June 2024
Team ID	TMID740029
Project Title	Startup Prophet
Maximum Marks	3 Marks

Project Proposal (Proposed Solution) report

The proposal report aims to the startup prophet project, "Startup Prophet," is to develop a sophisticated machine learning model capable of accurately classifying and predicting startup success or failure based on a variety of data inputs. This involves analyzing diverse datasets to uncover the key factors that influence success or failure and creating a user-friendly application that provides insights and predictions on startup success or failure. The main goal is to contribute to the understanding of well-being, offering valuable tools and knowledge to individuals and organizations to enhance overall startup growth.

Project Overview	
Objective	The primary objective of the startup prophet in the context of machine learning is to develop and optimize algorithms that can accurately classify and predict startup success or failure based on various data inputs.
Scope	The main scope of the startup prophet classification is to develop and optimize machine learning models that accurately identify and predict startup success or failure from diverse data sources.
Problem Statement	
Description	Addressing the challenges of data quality, feature extraction, and model optimization, while ensuring ethical considerations and data privacy.

Impact	It includes improved understanding of factors influencing success and failure, enhanced developing tools, and better user experience designs, ultimately contributing to startup success or failure.
Proposed Solution	

Approach	The approach of the startup prophet involves collecting and preprocessing diverse startup-related data, extracting relevant features, training and optimizing machine learning models, and deploying these models in realworld applications while ensuring ethical considerations and data privacy.
Key Features	- Aggregates and processes diverse data sources to identify relevant Indicators of success and failure. - Utilizes state-of-the-art machine learning techniques and hyperparameter tuning to enhance model accuracy and reliability. - Ensures ethical handling of data and privacy protection throughout the model development and deployment process.

Resource Requirements

Resource Type	Description	Specification/Allocation
Hardware		
Computing Resources	CPU/GPU specifications, number of cores	T4 GPU
Memory	RAM specifications	8 GB
Storage	Disk space for data, models, and logs	1 TB SSD
Software		

Frameworks	Python frameworks	Flask
Libraries	Additional libraries	scikit-learn, NumPy, pandas, matplotlib, seaborn
Development Environment	IDE	Jupyter Notebook, Google Colab
Data		
Data	Source, size, format	Kaggle dataset, 729MB, csv.