



Project Initialization and Planning Phase

Date	18 June 2025	
Team ID	SWTID1749880888	
Project Title	Prosperity Prognosticator: Machine Learning for Startup Success Prediction	
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 develop a machine learning model that predicts the success potential of startups based on key characteristics, funding history, and market trends.
Scope	The project targets early-stage startup evaluation, offering insights to investors, entrepreneurs, and policymakers for better decision-making and resource allocation.
Problem Statement	
Description	Stakeholders face uncertainty and inconsistent data when evaluating startup viability, leading to poor investment decisions and weak strategic planning.
Impact	Solving this problem enables smarter investments, stronger startups, and more effective policy interventions driving innovation and economic growth.
Proposed Solution	
Approach	Use supervised machine learning models trained on historical startup data to predict success likelihood, supported by data preprocessing, feature engineering, and model tuning.
Key Features	Implementation of a machine learning based success prediction model Real-time decision making for quicker investments





Resource Requirements

Resource Type	Description	Specification/Allocation	
Hardware			
Computing Resources	CPU/GPU specifications, number of cores	NVIDIA GeForce RTX 3050	
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, pandas, numpy, joblib	
Development Environment	IDE, version control	Jupyter Notebook, Git	
Data			
Data	Source, size, format	Kaggle dataset	