Define Problem Statements

Prosperity Prognosticator: ML For Startup Success Prediction

1. Problem Overview

The startup ecosystem is highly unpredictable. Thousands of new ventures are launched every year, yet a significant majority fail within the first few years. Stakeholders such as investors, entrepreneurs, and policymakers currently lack reliable, data-driven tools to evaluate startup potential objectively.

2. Problem Statements by Scenario

Scenario 1 – Investors

Problem: Investors rely heavily on intuition and experience when evaluating startups for funding. This leads to suboptimal portfolio decisions, missed opportunities, and high financial risk.

Solution Needed: A predictive tool that objectively scores startup investment opportunities using historical data and ML models.

Scenario 2 – Entrepreneurs

Problem: New entrepreneurs lack insight into which factors most influence startup success. Without this, they cannot optimize their strategies for growth and sustainability.

Solution Needed: A platform that analyzes startup parameters and provides actionable predictions and key success factor insights.

Scenario 3 – Policy Makers

Problem: Government bodies and policymakers struggle to allocate resources effectively to stimulate entrepreneurship due to insufficient data on what drives startup success.

Solution Needed: An analytics system that identifies macro-level success patterns to guide targeted support programs and policy decisions.

3. Core Problem Statement

"How can machine learning be used to accurately predict startup success based on key characteristics, funding data, and market trends, so that investors, entrepreneurs, and policymakers can make better, data-driven decisions?"

4. Success Criteria

Criteria	Target
Model Accuracy	Above 80%
Prediction Speed	Under 3 seconds
User Interface	Simple web form – home & result pages
Supported Algorithms	Minimum 5 ML algorithms compared
Deployment	Flask web application, locally hosted