

Project Design Phase-II

Data Flow Diagram & User Stories

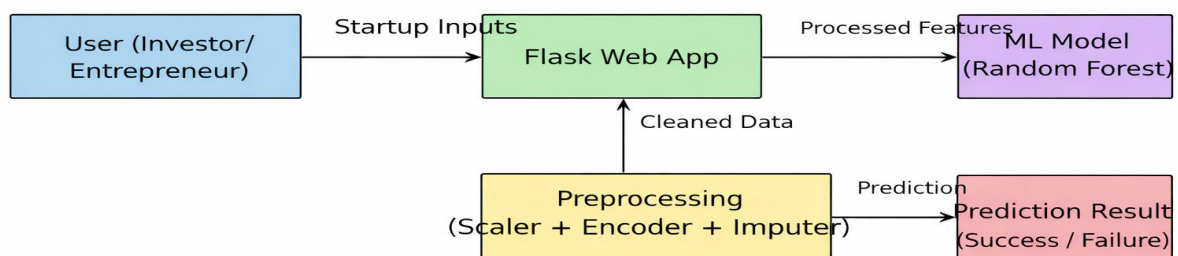
Date	30 January 2026
Team ID	LTVIP2026TMIDS76348
Project Name	Prosperity Prognosticator Machine Learning for Startup Success Prediction
Maximum Marks	4 Marks

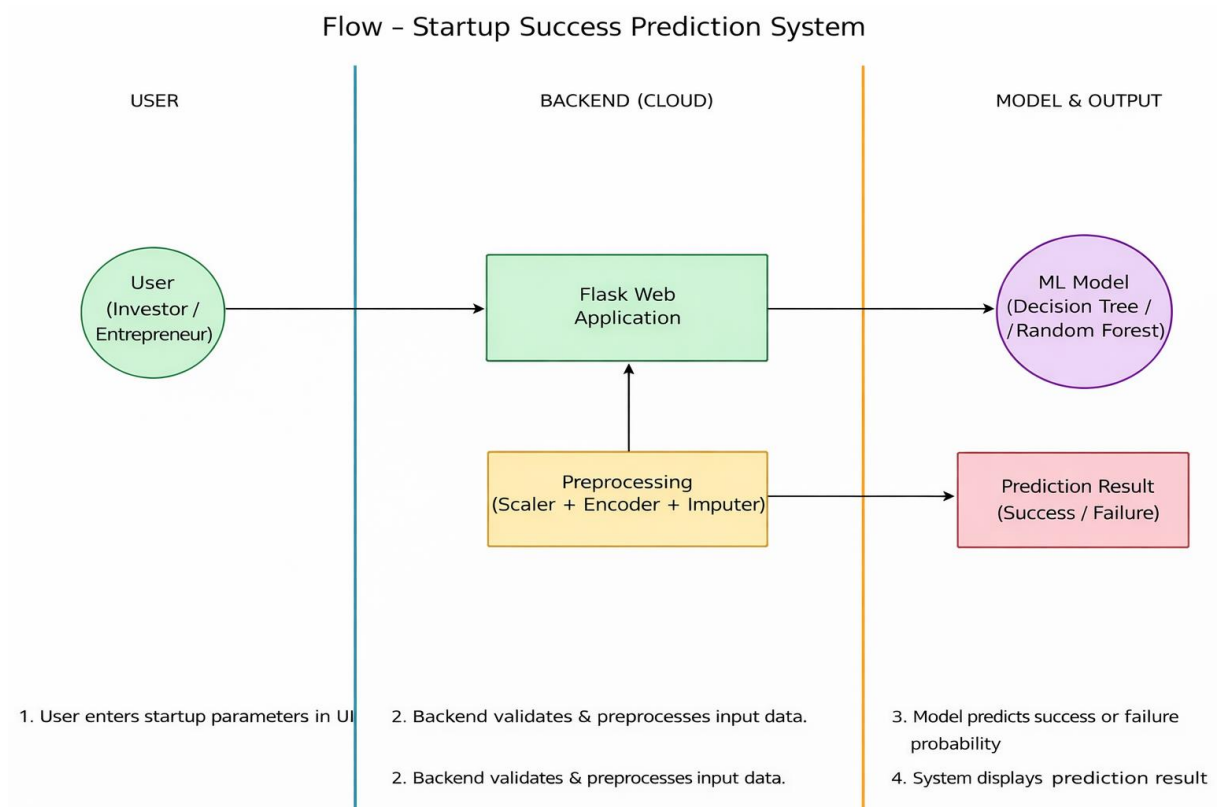
Data Flow Diagrams:

The Data Flow Diagram represents how user input flows through the system.

The user (investor/entrepreneur) enters startup-related parameters such as funding details, milestones, relationships, and participants through the web interface. The Flask backend receives the input, performs preprocessing steps such as data scaling, encoding, and missing value handling. The processed data is then passed to the trained Machine Learning model (Random Forest / Decision Tree / KNN). The model predicts whether the startup is **Successful (Acquired)** or **Failed (Closed)**. The prediction result is displayed on the web interface along with insights for decision-making.

Data Flow Diagram – Startup Success Prediction System





User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Investor / Entrepreneur (Web User)	Startup Success Prediction System	USN-1	As an investor, I can enter startup parameters (funding year,	The system accepts input and processes it without errors.	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
			milestones, relationships, funding rounds, etc.) into the web application.			
Investor / Entrepreneur		USN-2	As an investor, I can receive startup success prediction results.	The system displays Startup Success (Acquired) or Startup Failure (Closed) .	High	Sprint-1
Investor / Entrepreneur		USN-3	As an entrepreneur, I can view insights to improve startup planning.	Recommendations and insights are displayed based on prediction results.	High	Sprint-1
Administrator	Model Management	USN-4	As an administrator, I can retrain or update the ML model when new startup data is available.	Updated model can be deployed without affecting the UI.	Medium	Sprint-2
Administrator	System Monitoring	USN-5	As an administrator, I can monitor system performance and model accuracy.	Accuracy metrics and evaluation reports are available.	Medium	Sprint-2