

## Prosperity Prognosticator: Machine Learning for Startup Success Prediction

### Project Overview

Prosperity Prognosticator is a machine learning project designed to predict the likelihood of a startup's success based on business, financial, market, and founder features.

### Problem Statement

Most startups fail due to poor market fit, weak financial planning, inexperienced founders, and insufficient funding.

### Core Idea

Input startup data → ML model → Success Probability Score

### Dataset Features

- Funding amount
- Number of funding rounds
- Industry
- Founder experience
- Team size
- Location
- Revenue
- Burn rate
- Market size

### Machine Learning Models

Beginner:

- Logistic Regression
- Decision Tree

Intermediate:

- Random Forest
- Support Vector Machine

Advanced:

- XGBoost
- Neural Network

Tech Stack

Python, pandas, numpy, matplotlib, seaborn, scikit-learn, xgboost, streamlit

Folder Structure

prosperity-prognosticator/

  data/

  notebooks/

  src/

  models/

  app/

  requirements.txt

  README.md

Workflow

1. Data Collection
2. Data Preprocessing
3. Train Model
4. Evaluate
5. Save Model
6. Prediction

Advanced Ideas

- Success probability score
- Feature importance graph
- Dashboard
- Risk score

- Startup ranking system

Resume Project Title

Machine Learning Model for Startup Success Prediction using Random Forest and XGBoost

Author

Your Name