



Project Initialization and Planning Phase

Date	26 NOVEMBER 2024	
Team ID	FACULTY	
Project Title	Unemployed Insurance Beneficiary Forecasting	
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	Unemployed Insurance Beneficiary Forecasting is to accurately predict the number of beneficiaries to optimize resource allocation, reduce delays, and improve the overall beneficiary experience.	
Scope	Includes designing and implementing a predictive model to forecast the number of beneficiaries, utilizing historical data, economic indicators, and demographic trends.	
Problem Statement		
Description	The Unemployed Insurance Beneficiary Forecasting problem statement involves developing an accurate predictive model to forecast the number of unemployed insurance beneficiaries, addressing the challenges of inaccurate forecasting, delayed payments, and inefficient resource allocation.	
Impact	The accurate forecasting of unemployed insurance beneficiaries will have a significant impact on optimizing resource allocation, reducing payment delays, and improving the overall experience for beneficiaries, ultimately enhancing the efficiency and effectiveness of the unemployment insurance program.	
Proposed Solution		
Approach	The proposed solution approach involves developing a predictive analytics model leveraging machine learning algorithms, historical data, and economic indicators to accurately forecast the number of unemployed insurance beneficiaries.	





Key	Includes predictive analytics, machine learning algorithms, data integration,	
Features	automated forecasting, and real-time reporting and visualization.	

Resource Requirements

Resource Type	Description	Specification/Allocation			
Hardware					
Computing Resources	CPU/GPU specifications, number of cores	2 x NVIDIA V100 GPUs			
Memory	RAM specifications	8 GB			
Storage	Disk space for data, models, and logs	1 TB SSD			
Software					
Frameworks	Python frameworks	e.g., Flask			
Libraries	Additional libraries	e.g., scikit-learn, pandas, numpy,tensorflow,keras,plotl y,statsmodels,matplotlib			
Development Environment	IDE, version control	e.g., COLAB Notebook, Git,VS Code			
Data					
Data	Source, size, format	e.g., Kaggle dataset, 10,000 images			