Project Design Phase-1 Proposed Solution Template

Date	22-10-2022
Team ID	PNT2022TMID03757
Project Name	Corporate Employee Attrition Analytics
Maximum Marks	2 Marks

Proposed Solution Template:

S.NO	PARAMETER	DESCRIPTION
1.	Problem Statement (Problem to be	Employee turnover is now a significant
	solved)	problem for a company's competitive
		advantage. The most crucial component of
		every corporation is its workforce.
		Successful employees meet deadlines,
		generate revenue, and enhance the brand
		through satisfying encounters with clients.
		The cost of finding, hiring, and training
		new employees is very high. It is more
		economical for a corporation to retain its
		current workforce. To keep its staff for a
		longer term, a business must maintain a
		pleasant working environment. It was done
		manually a few years ago, but now we live
		in the age of machine learning and data
		analytics. The hr department of a
		corporation now makes use of a data
		analytics tool to determine which processes
		need to be changed in order to keep the
		majority of its personnel.
2.	Idea / Solution description	The proposed system is being
	-	implemented using machine learning, one
		of the applications of artificial
		intelligence, as a solution to the issue.
		Based on employee happiness, the
		workplace environment, and other factors,
		the employee attrition analysis system will
		forecast the attrition rate. Finding an
		employee's mood is a difficult process.
		Identifying daily mood recognition,
		emotion detection, the surroundings, the
		need for a hike, employee contentment,
		employee contribution, and job
		development are other crucial factors. This
		predictor has been presented as a solution
		to all of these problems.

3.	Novelty / Uniqueness	The field of smart and contemporary employee sentiment analysis is currently undergoing a lot of research and development. The ensemble machine learning approach known as gradient boosting, can be utilized to create the predictor model. These are the models used to forecast the attrition rate of employees.
4.	Social Impact / Customer Satisfaction	Management, industrial people, other sectors, job-seekers, hr, team leads, clients.
5.	Business Model (Revenue Model)	It is simpler for hr and management since it produces results with the least amount of effort and time when predicting the employee turnover rate and analyzing mood and emotions. This deed greatly benefits both the business and society as a whole.
6.	Scalability of the Solution	A variety of corporate companies must store, evaluate, and take action on the massiveamounts of data being produced by the employees who work for them as it expands quickly.