Project Design Phase-I
Proposed Solution Template

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Multiple decision trees are built during the training phase of the Random Forest algorithm, an Ensemble-Bagging technique.
- The random forest selects the ultimate decision from the majority of the outputs (trees).
- Using Random Forest is primarily advantageous because it is a combination of the two categories of supervised learning issues.
- The forecast made by our model is based on the results of the random forest, which is made up of an excessive number of individual decision trees working together as an ensemble. Each tree in the random forest produces a prediction for a certain category.
- Another benefit of the Random Forest Algorithm is the measurement of the relative contribution of each attribute to the prediction. The random forest algorithm's ease of use is yet another strength.
- Each tree in Random Forest is chosen at random from a collection of features. Because of the large level of variety, there is less connection between trees and more diversification.

Example - Solution Architecture Diagram: