Project Design Phase-I

Solution Architecture

Date	23 October 2023
Team ID	Team-591627
Project Name	T20 Totalitarian: Mastering Score Predictions
Maximum Marks	4 Marks

Solution Architecture:

The solution architecture of this project is a structured pipeline that encompasses data collection, preprocessing, feature engineering, model selection, and evaluation. It begins with gathering the T20 cricket data and cleaning it meticulously. The relevant features are encoded to ensure the compatibility with Machine Learning models. Then different models are compared based on their efficiency and accuracy. Evaluation metrics like R-squared and Mean Absolute Error are employed to assess the model's performance. This architecture is modular, adaptable and designed to efficiently predict T20 cricket team scores while maintaining data quality and scalability.

Solution Architecture Diagram:

USER

BATTING TEAM | CURRENT SCORE | VENUE | CURRENT SCORE | OVERS LEFT | WICKETS OUT

DATASET

DATA PREPROCESSING

FEATURE EXTRACTION

ENCODING

MODEL TRAINING

MODEL EVALUATION

MACHINE LEARNING ALGORITHM

PREDICTION