

Project Design Phase

Solution Architecture

Date	23 October 2023
Team ID	PNT2022TMID592946
Project Name	Project – Travel Insurance Predication using Machine Learning
Maximum Marks	4 Marks

Solution Architecture:

The model will examine historical data on past travel insurance purchases, demographic information, and travel itinerary to predict the likelihood of an individual purchasing travel insurance. It begins by collecting historical travel and insurance data from various sources, followed by a data preprocessing stage to refine the dataset. Machine learning models are employed to predict insurance claim probabilities, adapting to changing trends. The project is finalized with a user-friendly API or web interface for real-time predictions, ensuring accessibility and scalability. This architecture enhances the travel insurance experience for customers while effectively managing risk for insurance providers.

Our solution leverages Convolutional Neural Networks (CNNs) to address the Travel Insurance classification problem effectively.

- Data Gathering
- Data Preprocessing
- Model Building
- Travel Insurance Prediction
- Real Time Analysis

Solution Architecture Diagram:



