

## Project Design Phase

### Solution Architecture

Date	27 October 2023
Team ID	PNT2022TMID592722
Project Name	Travel Insurance Predication using Machine Learning
Maximum Marks	4 Marks

#### Solution Architecture:

The model analyzes historical data, including past travel insurance purchases, demographics, and itineraries, to predict the likelihood of an individual buying travel insurance. It starts by collecting data from various sources and undergoes thorough preprocessing to refine the dataset. Machine learning models predict insurance claim probabilities, adapting to changing trends. The project ends with a user-friendly API or web interface for real-time predictions, enhancing accessibility and scalability. This approach improves the travel insurance experience for customers and manages 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:

