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(71)Name of Applicant :

1)Chitkara University

Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Bluest Mettle Solutions Private Limited

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)MISHRA, Rahul

Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

2)SINGH, Dhiraj

Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

3)MANTRI, Archana

Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

The present disclosure relates to a personalized travel assistant system. The system includes a secured data transmission module 102 configured for secure data transmission, an authentication module for authenticating a user to provide secure access to the system, user interface for receiving traveler preferences and providing personalized recommendations, an algorithm for comparing prices across different airlines, hotels, and travel services to find the best deals, a route optimization algorithm, Natural Language Processing (NLP) algorithms for understanding and responding to natural language queries from the traveler, Image recognition algorithms for analyzing images and providing information about locations or attractions depicted in the images; and a Weather prediction algorithm for providing real-time weather updates for the traveler's destination.

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