

G. Narayananamma Institute of Technology & Science

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING III B. Tech I Sem Mini Project 1, 2025-2026, GNR-22

on

“TripNavigator: Collaborative AI for Smarter Travel Experiences”

Under the guidance of

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Abstract:

Organizing a trip can often be a difficult and time-consuming effort. Travelers must search in multiple platforms to retrieve information about destinations, hotels, transport, weather, and budgeting information. Additionally, information is often fragmented, making it hard to neatly organize everything together into a simple detailed plan while putting all of the pieces together often brings up frustrations, confusion and inefficiencies.

TripNavigator simplifies and automates the process of organizing a trip. Built on a multi-agent architecture, the platform employs specialized intelligent agents in which they can assist the customer with different areas of trip planning (i.e. research on destinations, hotel recommendations, transport planning, weather report, budgeting recommendations). Each of the agents communicate together to process user preferences and pull in real-time data to generate a personalized and optimized travel plan. With the seamless combination of automation and intelligent smart agents, the effort required is reduced, mistakes are reduced and the overall travel experience is enriched. The system enables the user with accurate data-driven travel schedule in short period of time, producing a faster, smarter, and more efficient trip planning experience.

Key Words: Agentic AI, multi-agent architecture, automated trip planner, intelligent agents, destination research, transport and hotel planning, real-time data, personalized and optimized travel plan, efficiency, enhanced travel experience

Sustainable Development Goals (SDG): SDG 8: Decent Work and Economic Growth, SDG 11: Sustainable Cities & Communities

*Dept R&D: No

GNITS(CoE/RC): Advanced AI



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