**Team Contribution and percentage breakdown:**

**Viswanth Tammana (Team lead)**  **25%**

* Led project coordination to keep the team on track and ensure timely deliverables.
* Designed and implemented Amadeus API integration, transforming raw flight data into our required formats.
* Unified multiple APIs (Amadeus, Google Maps, OpenWeather) into a cohesive prototype for end-to-end itinerary generation.
* Converted API responses into vector embeddings for use in our RAG-based planning pipeline.
* Developed an interactive chatbot interface to gather user feedback and iteratively refine travel plans.
* Conducted a comparative evaluation of Stable Diffusion vs. DALL·E for generating images and short video previews.
* Built visualizations including RAG attention heatmaps and interactive Folium maps to illustrate recommendations.
* Implemented the DiffCut segmentation workflow to mask and blur backgrounds in AI-generated visuals for enhanced focus.

**Dharani** **Thakkallapally**  **25%**

* Generated Travel story, Images and Video based outputs to enhance user experience.
* Tried implementing open-source models like llama, Mistral 7B, as we are frequently running out of credits while using Open AI. However, after trying all of them, I felt that open AI is helping to achieve better results. So finally, we moved further with Open AI itself.
* Tried generating realistic video outputs instead of simple zoom-in/zoom-out effects, but all suitable models were paid.
* Enhanced prompt engineering, improving AI-generated travel story and visuals for better  
  personalization.
* Optimized video generation speed.
* Included purpose of visit factor to make the model generate more user relevant outputs.
* Tried implementing lora, to fine tune GPT-4 model but got to know that GPT-4 model weights are locked and it can’t be fine-tuned.
* Deployed entire project on Streamlit.
* Prepared demo video and poster for Research-A-Thon
* Documented entire progress report 2.
* Worked on Reproducibility of LLM check paper, and generated quantifying metrics for the project.
* Documented work related to LLM check in final submissions.

**Pavan Sundar Reddy Guthikonda** **25%**

* Developed Frontend on Streamlit – Built interactive UI components and ensured seamless real-time updates.
* Resolved Deployment Issues – Debugged MoviePy editor errors that worked locally but failed on  
  Streamlit.
* Integrated APIs Efficiently – Ensured smooth communication between frontend and AI models.
* Optimized UI Performance – Refactored components for faster response and better user experience.
* Enhanced Application Speed – Used asynchronous API calls to reduce load times.

**Banu Teja Jampani** **25%**

* Developed a Travel Recommendation Agent, integrating APIs to suggest hotels and restaurants  
  based on user budget, preferences, ratings, and availability.
* Implemented a Hotel Locations Agent, enhancing location-based accommodation  
  recommendations.
* Built a Restaurant Recommendation System, providing top-rated dining options with ratings.
* Ensured seamless interaction between hotel, restaurant, and travel planning agents for a unified  
  user experience.