PARYATAN MITRA

SMART TOURISM DASHBOARD

A Simple Step-by-Step Tutorial Using Claude AI

Uttarakhand Hackathon 3.0

VISIT - https://chandniagarwal.in/prayatan/

1. Subject Matter Expert Details

- Name: Dr. Chandni Agarwal
- Designation: National ICT Awardee 2017
- Tutorial / Project: Paryatan Mitra – Smart Tourism Dashboard
- Target Users: Teachers and students
- Tool: Claude AI

2. Objectives

By the end of this tutorial, participants will be able to:

- Understand how Claude AI can support dashboard development using natural-language prompts.
- Identify tourism-related challenges such as crowd management, facility availability and waste management.
- Create a simple, interactive Paryatan Mitra – Smart Tourism Dashboard using Claude AI.
- Display tourism information through dashboard cards, charts, filters and status indicators.
- Test and refine the dashboard using follow-up prompts.
- Understand the importance of reliable data, responsible AI use and sustainable tourism.

3. Project Introduction

Paryatan Mitra is a learning-oriented dashboard prototype for exploring tourism-related information in Uttarakhand. It brings sample information about tourist footfall, crowd levels, local facilities, waste management and sustainable tourism into one interface.

The tutorial demonstrates how teachers and students can use Claude AI to turn a problem statement into a simple web dashboard, test its features and improve it through prompts.

4. Problem Statement

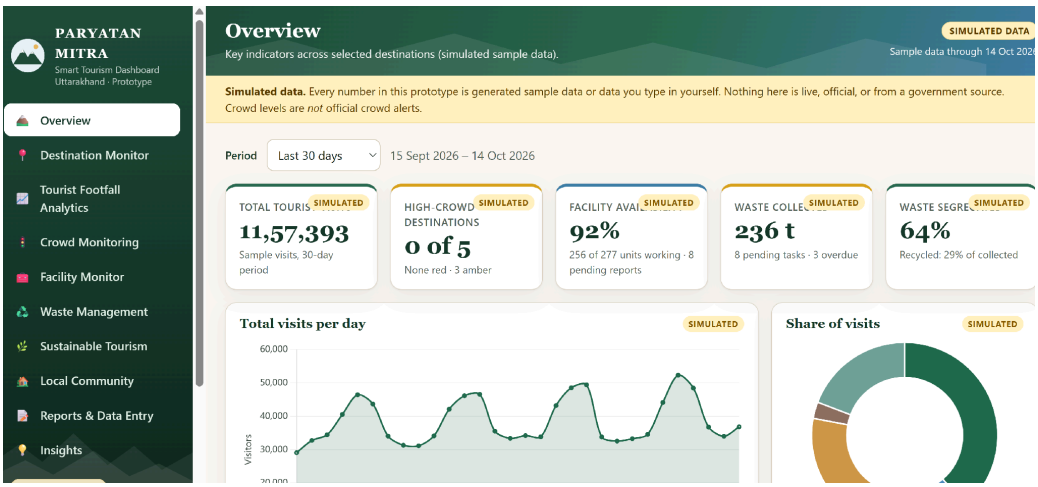
Tourism destinations can face challenges such as uneven visitor concentration, pressure on local facilities, waste collection needs and limited visibility of sustainability-related information. When information is scattered across different records, it can be difficult to review the overall situation in one place.

Teachers and students also need a practical, beginner-friendly way to understand how a dashboard can organise such information. Paryatan Mitra addresses this learning need through a prototype that presents destination-wise sample data, visual summaries and basic filters. The prototype does not provide official or live tourism monitoring.

5. Proposed Solution

Paryatan Mitra is a responsive Smart Tourism Dashboard built with the help of Claude AI. It demonstrates how sample tourism information can be displayed using summary cards, charts, destination filters and simple status indicators.

- Tourist Footfall: daily or monthly visitor trends using sample data.
- Crowd Monitoring: illustrative low, medium and high crowd labels.
- Local Facilities: sample status for parking, toilets, drinking water and medical assistance.
- Waste Management: sample waste collection and cleanliness records.
- Sustainable Tourism and Local Community: example indicators and information about eco-friendly initiatives, local guides and homestays.



6. Tools Required

- Claude AI: https://claude.ai/
- A modern web browser.
- A preview environment or a code editor/browser, depending on the files Claude generates.
- Internet access to use Claude. No live tourism data or API key is required for the sample prototype.

7. Step-by-Step Practical Demonstration

Step 1: Open Claude

1. Visit https://claude.ai/ and sign in using an available account.
2. Start a new conversation. If an artifact or preview feature is available, use it; otherwise ask Claude to generate the code files and instructions to run them.

Step 2: Describe the dashboard

3. Explain the purpose of Paryatan Mitra and list the features you need: tourist footfall, destination filters, crowd indicators, local facilities, waste management and sustainability information. Also, You can generate master prompt using chatgpt.
4. Copy and submit the master prompt in Section 7.

Step 3: Preview the result

5. Review the generated dashboard. Check that the headings, cards, charts and destination list are clear and that the interface works on a desktop and mobile screen.

Step 4: Test basic interactions

6. Select a destination filter and check whether the displayed information changes.
7. Try changing the date/month filter if included.
8. Add a sample facility or waste record if the form is available and check whether the table or total updates.

Step 5: Improve the dashboard

9. Use one follow-up prompt at a time to fix problems, improve the layout or make controls functional. Test the feature again after each change.

Step 6: Prepare the demonstration

10. Show the dashboard, one working filter and one chart or data-entry feature. Clearly state that the figures are simulated and not live official data.

8. Master Prompt for Claude AI

Create a simple, responsive and interactive web application called “Paryatan Mitra – Smart Tourism Dashboard” for an educational tutorial about tourism in Uttarakhand.

Use a clean Himalayan-inspired design with forest green, white and soft blue. Build a clear dashboard with these sections:

1. Overview cards for tourist visits, destinations by illustrative crowd level, facility status and waste collection.
2. Destination list with sample entries for Rishikesh, Mussoorie, Nainital, Auli and Kedarnath.
3. Tourist footfall chart with sample daily or monthly data.
4. Crowd monitoring with low, medium and high labels based on clearly stated illustrative thresholds.
5. Local facilities: parking, toilets, drinking water and medical assistance.
6. Waste management: sample collection records and pending cleanliness tasks.
7. Sustainable tourism and local community information.

Include destination filters, readable charts, simple tables and a form to add a sample facility or waste record if feasible. Make the controls functional, validate form inputs and ensure the layout works on mobile screens.

Use simulated data only and label it clearly. Do not claim live visitor counts, official crowd alerts or verified environmental impact. Do not require an API key for this prototype.

Explain how to preview or run the application, how to test the main features and what would be needed to connect verified real-world data in a future version. Review the result for obvious errors before finishing.

9. Follow-Up Prompts

Make it functional

Check that the destination filter, navigation, forms and charts work correctly. When a sample record is added, update the relevant table and totals. Fix errors without removing existing features.

Improve the design

Make the dashboard cleaner and easier to read. Improve spacing, headings, chart labels and mobile responsiveness while keeping the current features.

Test and debug

Check the application for broken buttons, incorrect calculations, invalid form entries and mobile layout issues. Fix the problems and list any remaining limitations.

10. Testing Checklist

- Destination filter works.
- Charts have clear titles and labels.
- Forms show validation messages and update the correct record or total.
- The dashboard is usable on mobile and desktop.
- All sample figures are marked as simulated.
- No live-data or official-alert claims are made.

11. Responsible Use and Conclusion

Use the dashboard as an educational prototype. Verify any information before using it for real decisions**. Do not present simulated figures as actual tourism statistics or official crowd warnings**. A live version would need permitted, reliable data sources, clear update schedules, testing and human oversight.

Paryatan Mitra gives learners a simple way to practise problem identification, prompt writing, dashboard design, data visualisation and testing with Claude AI.

12. References

- Claude AI: https://claude.ai/

- Uttarakhand Hackathon 3.0 information: https://innovateuttarakhand.com/event/hacathon-3.0
- Tutorial resource page (intended location): **https://www.chandniagarwal.in/prayatan**