My Freeriding Assistant

Link to the demo of the app: **Recording-20250331_185019.webm**

1. Utility of the Prototype

This app helps freeride skiers in the Pyrenees identify the best days and places to ski based on real-time weather data. It classifies ski resorts using snowfall, temperature, and wind, and provides clear recommendations through an AI-powered assistant.

Users can:

• Explore resorts on an interactive map with clickable markers.

• View conditions including snowfall (72h), temperature, wind, and a custom grading label.

• Select resorts and dates to get an LLM-generated summary ranking the best spots.

• Compare conditions of resorts with a bar chart of key variables.

2. Design Highlights

The app is structured in two layers:

• An exploration map for quick, intuitive understanding.

• A deeper analysis section that uses an LLM to generate a single, concise comparison report.

Resorts are graded using custom categories like *"Pow Cuscus"* or *"Weather for beginners"*. The app combines narrative insights with visual data, allowing freeriders to make informed decisions without digging through raw forecasts.

3. Challenges and Next Steps

Originally, the idea was to build a global app, but ensuring precise, localized data led to a focus on the Pyrenees. Another challenge was unifying the AI outputs into a single report rather than fragmented messages. Sunlight data was also limited and had to be inferred.

Next steps include allowing users to save favorite resorts, a feature that will be developed after exams ☺

Conclusion

There's currently no app built for this specific audience, freeride skiers chasing powder. This tool fills that gap. It also supports beginners with simpler recommendations. My ski group is already starting to use it, and we plan to keep improving it together beyond this project.