

Table A1.

List of the models' features included in the analysis.

Name	Feature description	Scale/Categories
Carry along or not? (outcome)	Do you carry the standard avalanche safety equipment (transceiver, shovel, probe) on the current tour?	No = 0 Yes = 1
Sociodemographic aspects		
Age	How old are you?	Metric value between 21 and 83
Gender	What sex do you have?	Male Female
Minors in household	Are minors living in your household?	No = 0 Yes = 1
Residency	Living within a 30 minute's car drive to the ski touring region	No = 0 (visitor) Yes = 1 (resident)
University degree	Do you have a university degree?	No = 0 Yes = 1
Ski touring specific features		
Avalanche involvement	Level of avalanche involvement experienced	No experience Indirect experience (witnessed) Direct experience (buried)
Climate change perception	Assessment on how much climate change effects ski touring weighted with indicated climate change impacts	Low impact High impact
Expertise	Average number of ski tours per season multiplied with the number of years doing ski tours	Metric value between 0 and 260
Familiarity	Average number of ski tours in the 'Taubenstein' region per season multiplied with the number of years touring the region	Metric value between 0 and 260
Leaving former piste	Are the planned touring points located outside of the former lift route?	No = 0 Yes = 1
Self-assessment experience	Self-evaluation of the individual experience in ski touring	Metric value between '0 = no experience' and '10 = highest possible experience')

Self-assessment risk-taking	Self-evaluation of the individual risk-taking propensity in ski touring	Metric value between '0 = no risk' and '10 = highest possible risk')
Tour specific	Carrying standard avalanche safety equipment depends on the planned trip.	No = 0 Yes = 1
Safety and prevention practices		
Alpine education	Do you have a formal alpine education?	No = 0 Yes = 1
Avalanche education	Did you take an avalanche course in the last six years?	No = 0 Yes = 1
Avalanche information frequency	How often did you gather information about the avalanche warning of the last five tours?	Always Not always
Avalanche information	Do you gather information about the daily updated official avalanche danger level?	No = 0 Yes = 1
DAV snowcard	Have you already used the avalanche decision aid 'DAV snowcard'?	No = 0 Yes = 1
Filter method	Do you know the avalanche decision aid '3x3 filter method'?	No = 0 Yes = 1
Group size	Group size in which respondents are on a ski tour	Alone Group of 2-3 people Group of more than three people
In company	Carrying standard avalanche safety equipment depends on the company (in company vs. alone).	No = 0 Yes = 1
Terrain information	Do you gather information about the terrain of the planned tour?	No = 0 Yes = 1
Environmental factors		
Avalanche danger level	Carrying standard avalanche safety equipment depends on the avalanche danger level.	No = 0 Yes = 1
Cloudiness	Daily average cloud cover in %	Metric value between 12.75 and 100
Snowfall	Daily snowfall amount in cm	Metric value between 0 and 16.45

Temperature	Daily maximum temperature in °C	Metric value between -4.92 and 3.74
Wind	Daily average wind velocity in m/s	Metric value between 9.93 and 40.35