Table. 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<br>Yes = 1 |
| **Sociodemographic aspects** | | |
| Age | How old are you? | Metric value between 21 and 83 |
| Gender | What sex do you have? | Male<br>Female |
| Minors in household | Are minors living in your household? | No = 0<br>Yes = 1 |
| Residency | Living within a 30 minute's car drive to the ski touring region | No = 0 (visitor)<br>Yes = 1 (resident) |
| University degree | Do you have a university degree? | No = 0<br>Yes = 1 |
| **Features on ski touring** | | |
| Alpine education | Do you have a formal alpine education? | No = 0<br>Yes = 1 |
| Avalanche education | Did you take an avalanche course in the last six years? | No = 0<br>Yes = 1 |
| Avalanche information | Do you gather information about the daily updated official avalanche danger level? | No = 0<br>Yes = 1 |
| Avalanche information frequency | How often did you gather information about the avalanche warning of the last five tours? | Always<br>Not always |
| Avalanche involvement | Level of avalanche involvement experienced | No experience<br>Indirect experience (witnessed)<br>Direct experience (buried) |
| Climate change perception | Assessment on how much climate change effects ski touring weighted with indicated climate change impacts | Low impact<br>High impact |
| DAV snowcard | Have you already used the avalanche decision aid 'DAV snowcard'? | No = 0<br>Yes = 1 |

| | | |
|---|---|---|
| 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 |
| Filter method | Do you know the avalanche decision aid '3x3 filter method'? | No = 0<br>Yes = 1 |
| Group size | Group size in which respondents are on a ski tour | Alone<br>Group of 2-3 people<br>Group of more than three people |
| In company | Carrying standard avalanche safety equipment depends on the company (in company vs. alone). | No = 0<br>Yes = 1 |
| Leaving former piste | Are the planned touring points located outside of the former lift route? | No = 0<br>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') |
| Terrain information | Do you gather information about the terrain of the planned tour? | No = 0<br>Yes = 1 |
| Tour specific | Carrying standard avalanche safety equipment depends on the planned trip. | No = 0<br>Yes = 1 |
| **Environmental factors** | | |
| Avalanche danger level | Carrying standard avalanche safety equipment depends on the avalanche danger level. | No = 0<br>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 |