|  |  |  |  |
| --- | --- | --- | --- |
| **Feature** | **Description** | **Selected (Yes/No)** | **Reasoning** |
| Biosignal 1 | Description of biosignal 1 | Yes | Identified as significant in correlating with smoking behavior |
| Biosignal 2 | Description of biosignal 2 | Yes | High feature importance score in initial analysis. |
| Biosignal 3 | Description of biosignal 3 | Yes | Consistently observed to differentiate smoking vs. non-smoking. |
| Age | Participant's age | Yes | Known demographic factor influencing smoking behavior. |

**Model Development Phase Template**

|  |  |
| --- | --- |
| Date | 21 June 2024 |
| Team ID | 740037 |
| Project Title | Estimating Presence or Absence of Smoking Through Bio Signals |
| Maximum Marks | 5 Marks |

**Feature Selection Report Template**

This Feature Selection Report template provides a structured approach to documenting the rationale and methods used to select features for your project on estimating smoking behavior through biosignals.



|  |  |  |  |
| --- | --- | --- | --- |
| Gender | Participant's gender | Yes | Provides insights into gender-based differences in smoking. |
| Smoking Status | Participant's self-reported smoking status | No | arget variable for prediction; not a feature. |