

### Model Development Phase Template

Date	21 June 2024
Team ID	740005
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.

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.

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.