Model Development Phase Template

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| Date | 06 JULY 2024 |
| TeamID | 739909 |
| Project Name | Unlocking Silent Signals: Decoding Body Language With Mediapipe |
| Maximum Marks | 5 Marks |

Feature Selection Report Template:

Features are selected based on their potential to influence or reflect the body language classes being predicted. The selected features are expected to effectively capture and classify body language into the desired categories of happy, sad, victorious, and fight. These features have been chosen based on their relevance and ability to provide meaningful cues for the classification task using Mediapipe technology.

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| **Feature** | **Description** | **Selected (Yes/No)** | **Reasoning** |
| Facial | Landmarks | Yes | Facial landmarks provide critical cues for emotions. |
| Hand | Gestures | Yes | Different hand gestures can signify various emotions. |
| Body | Posture | Yes | Posture indicates confidence, aggression, or sadness. |
| Eye | Movements | Yes | Eyes reflect emotions such as  joy, sadness, or focus. Hair color does not influence body language prediction. |

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| Hair | Color | No |  |
| Micro | expressions | Yes | Subtle facial expressions that reveal hidden emotions. |
| Head | Movements | Yes | Head nods or shakes can indicate  agreement or disagreement. |
| Gesture | Speed | Yes | Speed of gestures can indicate urgency or  calmness. |
| Overall Body | Movement | Yes | General body movements can indicate mood and energy level. |
| Contextual | Information | Yes | Surrounding context influences interpretation of gestures. |