**Model Development Phase Template**

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| Date | 15 March 2024 |
| Team ID | SWTID1749727925 |
| Project Title | E-Adapt: Predicting Student Adaptability in Online Classes |
| Maximum Marks | 5 Marks |

**Feature Selection Report Template**

In the forthcoming update, each feature will be accompanied by a brief description. Users will indicate whether it's selected or not, providing reasoning for their decision. This process will streamline decision-making and enhance transparency in feature selection.

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| **Feature** | **Description** | **Selected (Yes/No)** | **Reasoning** |
| **Class Duration** | Average duration of online classes attended by the student. | Yes | Longer or shorter classes may affect adaptability and engagement. |
| **Financial Condition** | Socio-economic status of the student’s family. | Yes | Financial constraints can affect access to devices, internet, and learning resources. |
| **Age** | Age of the student. | Yes | Age influences learning styles and adaptability to online modes. |
| **Gender** | Gender of the student. | Yes | Gender-based differences in adaptability and participation may exist. |
| **Institute Type** | Public or private institution. | Yes | Different institutions have varying levels of support and resources for online learning. |
| **Device Used** | Device used for attending online classes (laptop, mobile, etc.). | Yes | Directly impacts user experience and adaptability. |
| **Self LMS** | Whether the student uses a Learning Management System independently. | Yes | Indicates proactiveness and self-regulation, important for adaptability. |
| **Education Level** | Current level of education (undergraduate, postgraduate, etc.). | Yes | Education level may impact familiarity with technology and learning habits. |
| **Network Type** | Type of internet connection (Wi-Fi, mobile data, broadband, etc.). | Yes | Internet quality is crucial for online learning and affects adaptability. |
| **Location** | Urban or rural residence. | Yes | Connectivity and resource availability differ based on location. |
| **Internet Type** | Broadband, fiber, or mobile internet type used. | Yes | Affects reliability and speed of online learning access. |
| **IT Student** | Whether the student is from an IT-related background. | Yes | Familiarity with digital tools may improve adaptability. |
| **Load Shedding** | Frequency of power cuts/load shedding affecting study time. | Yes | Directly impacts consistency of attending online classes and adaptability. |