**Project Initialization and Planning Phase**

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| Date | 10 July 2024 |
| Team ID | 739836 |
| Project Name | Predictive Modeling for H1-B Visa Approval Using Machine Learning |
| Maximum Marks | 3 Marks |

**Define Problem Statements** (**Customer Problem Statement Template** ):

I am a data scientist trying to predict the approval status of H1B visa applications using historical data, but current models lack accuracy because they do not account for various influencing factors, which makes stakeholders uncertain about the application outcomes.

|  |  |
| --- | --- |
| I am | A data scientist |
| I am trying to | Predict the approval status of H1B visa applications using historical data |
| But | current models lack accuracy |
| Because | because they do not account for various influencing factors |
| Which makes me feel | stakeholders uncertain about the application outcomes |

Reference: <https://miro.com/app/board/uXjVK2aqlmY=/?share_link_id=534024970903>

**Example:**

# Customer Problem Solving Template

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Iam** | **I’m trying to** | **But** | **Because** | **Which makes me**  **feel** |
| A data scientist | Predict the approval status status of H1B visa applications using historical data | current models lack accuracy | because they do not account for various  influencing factors | stakeholders uncertain about the application  outcomes |

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| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Problem**  **Statement**  **(PS)** | **I am** | **I’m trying to** | **But** | **Because** | **Which makes me feel** | | PS-1 | Customer | Complete my H1-B visa application successfully and in a timely manner. | The application process is complex and time consuming. | The requirements and procedures are not clearly explained and there is a lack of support from USCIS. | Frustrated and overwhelmed. | | PS-2 | International professional | Plan my career and relocation to the U.S. with my H1-B visa approval. | The  waiting  times for  visa approval are excessively long. | The USCIS processing  times are  unpredictable  and often delayed. | Anxious and uncertain about my future. | |  |