



Data Collection and Preprocessing Phase

Date	15 JULY 2024	
Team ID	SWTID1720151909	
Project Title	PANIC DISORDER SETECTION	
Maximum Marks	2 Marks	

Data Quality Report Template

The Data Quality Report Template will summarize data quality issues from the selected source, including severity levels and resolution plans. It will aid in systematically identifying and rectifying data discrepancies.

Data Source	Data Quality Issue	Severity	Resolution Plan
Kaggle Dataset	The data set consist data from 1906-2015 which will not be the correct estimation for further years	Moderate	To address the issue of outdated data for future predictions, we can use advanced statistical and machine learning techniques. Here's a technical solution: 1. Data Preprocessing:

specifically designed to handle time-dependent data and can capture trends and seasonality.

 Use regressionbased models like Linear Regression, Random Forest, or XGBoost with temporal crossvalidation to predict future values.

3. Training and Validation:

- Split the data into training and validation sets based on time. Ensure that the validation set consists of the most recent data.
- Use techniques like walk-forward validation to iteratively train and validate the model on multiple subsets of the data to ensure robustness.

4. **Prediction**:

- Generate future predictions using the trained model.
- Evaluate the predictions using metrics like Mean Absolute Error (MAE), Root Mean Squared Error (RMSE), and R-squared to assess model performance.

5. Model Updating:

 Continuously update the model with new data as it becomes available to improve accuracy and relevance.