

3. Data Collection and Preprocessing Phase

Date	06 July 2024
Team ID	SWTID1720017249
Project Title	Panic Disorder Detection
Maximum Marks	2 Marks

3.1 Data Collection Plan & Raw Data Sources Identification Report

Elevate your data strategy with the Data Collection plan and the Raw Data Sources report, ensuring meticulous data curation and integrity for informed decision-making in every analysis and decision-making endeavor.

Data Collection Plan:

Section	Description
Project Overview	This machine learning project aims to tackle panic disorder through machine learning for early detection support. A user-friendly system will collect physiological data (heart rate, respiration) and user-reported symptoms during potential attacks. This data, along with information from a panic disorder dataset on Kaggle, will be used to train machine learning models. These models will then analyze user data in real-time, searching for patterns indicative of panic attacks. By identifying these patterns early, users can be empowered to seek professional help and potentially improve their management of panic disorder.
Data Collection Plan	<ul style="list-style-type: none"> - A user-friendly system will collect real-time physiological data (heart rate, respiration) and user-reported symptoms during potential panic attacks. This allows the system to learn about the user's specific experiences. - Search for datasets containing data points relevant to panic attacks, such as self-reported anxiety levels, physiological responses during anxiety episodes, etc.

Raw Data Sources Identified	PanicAttackDetect utilizes two raw data sources. First, a user-friendly system will collect real-time physiological data (heart rate, respiration) and user-reported symptoms during potential panic attacks. This captures the user's specific experiences. Secondly, publicly available panic disorder datasets from Kaggle will be used. This injects additional information on panic attacks, enriching the training process for the machine learning models. Combining these sources aims to create a robust system for identifying patterns indicative of panic attacks.
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Raw Data Sources Identified:

Source Name	Description	Location/URL	Format	Size	Access Permissions
Kaggle Dataset	<p>This dataset contains 120000 records about Panic disorder patients. The dataset contains two files.</p> <p>Panic_Disorder_training:-This file contains 100000 labeled records.</p> <p>Panic_Disorder_testing:-This file contains 20000 labeled records.</p>	https://www.kaggle.com/datasets/muhammadshahidazeem/panic-disorder-detection-dataset/data	CSV	15.03 MB	Public