Data Collection and Preprocessing Phase

Date	02 Otober 2024
Team ID	739759
Project Title	OptiInsight - Revolutionizing Ophthalmic Care With Deep Learning For Predictive Eye Disease Analysis
Maximum Marks	2 Marks

Data Collection Plan & Raw Data Sources Identification Template

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 Template

Section	Description
Project Overview	This project leverages deep learning algorithms to analyze ophthalmic data for the early detection and prediction of eye diseases. By utilizing medical datasets, the system provides accurate and timely insights, aiding healthcare professionals in improving patient care and outcomes.
Data Collection Plan	The datasets will include ophthalmic images for disease analysis and labeled facial images for age and gender detection. Preprocessing techniques will be applied to ensure data quality and usability for model training.

Raw Data Sources Identified	**Predictive Eye Disease Analysis:** Raw data sources for this project include widely used ophthalmic datasets such as the EyePACS dataset and APTOS 2019, which provide annotated retinal images for various eye diseases like diabetic retinopathy and glaucoma. These datasets are publicly available on platforms like Kaggle and

	include high-quality images with detailed labels, enabling effective training and validation of the predictive models. **Age and Gender Detection Using Deep Learning:** Raw data sources include comprehensive datasets like the Adience benchmark and the IMDB-WIKI dataset. These datasets provide a vast collection of labeled facial images with age and gender details, sourced from real-world scenarios. The diversity in age ranges, facial expressions, and demographics ensures robustness and generalizability of the model for practical applications.

Raw Data Sources Template

Source Name	Description	Location/URL	Format	Size	Access Permissions

Dataset	In This Project We Have Used .Csv Data.This Data Is Downloaded From Kaggle.Com	kaggle datasets download gunavenkatdoddi/eyediseases-classification	CSV	700MB	Public