**Data Collection and Preprocessing Phase**

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| Date | 02 Otober 2024 |
| Team ID | 740031 |
| 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**

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| **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**

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| **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/eye-diseases-classification | CSV | 700MB | Public |