Data Collection and Preprocessing Phase

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| Date | 20-06-2025 |
| Team ID | SWDTID1749906902 |
| Project Title | Early Stage Disease Diagnosis System Using Human Nail Image Processing |
| Maximum Marks | 6 Marks |

**Data Exploration and Preprocessing Report**

Dataset variables will be statistically analyzed to identify patterns and outliers, with Python employed for preprocessing tasks like normalization and feature engineering. Data cleaning will address missing values and outliers, ensuring quality for subsequent analysis and modeling, and forming a strong foundation for insights and predictions.

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| **Section** | **Description** |
| Data Overview | Dimension:  **Total params:** 15,141,201 (57.76 MB)  **Trainable params:** 426,513 (1.63 MB)  **Non-trainable params:** 14,714,688 (56.13 MB)  Descriptive Statistics: |
| Univariate Analysis |  |

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| Bivariate Analysis |  |
| Multivariate Analysis |  |

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| Outliers and Anomalies | - |
| **Data Preprocessing Code Screenshots** | |
| Loading Data |  |
| Handling Missing Data | (If applicable, for metadata associated with images or if images have corrupted sections) Screenshots of code for addressing missing values. |
| Data Transformation | Screenshots of code for image transformations (e.g., resizing, normalization, color space conversion). |
| Feature Engineering | Attached the codes in final submission. (e.g., extracting texture features, shape features, or color histograms from nail images). |
| Save Processed Data | - |