



Data Collection and Preprocessing Phase

Date	12 July 2024
Team ID	SWTID1720067156
Project Title	Lymphography Classification Tool
Maximum Marks	6 Marks

Data Exploration and Preprocessing Template

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.

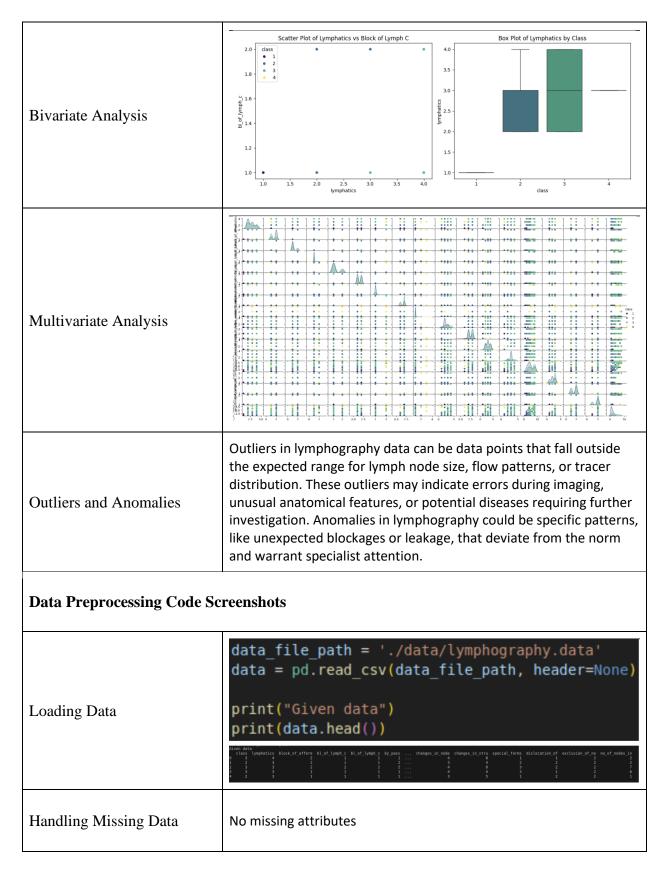




Section	Description
Data Overview	Dimension: 614 rows × 13 columns Descriptive statistics Attribute information: NOTE: All attribute values in the database have been entered as numeric values corresponding to their index in the list of attribute values for that attribute domain as given below. 1. class: normal find, metastases, malign lymph, fibrosis 2. lymphatics: normal, arched, deformed, displaced 3. block of affere: no, yes 4. bl. of lymph. c: no, yes 5. bl. of lymph. s: no, yes 6. by pass: no, yes 7. extravasates: no, yes 8. regeneration of: no, yes 9. early uptake in: no, yes 10. lym.nodes dimin: 0-3 11. lym.nodes enlar: 1-4 12. changes in lym.: bean, oval, round 13. defect in node: no, lacunar, lac. marginal, lac. central 14. changes in node: no, lacunar, lac. margin, lac. central 15. changes in stru: no, grainy, drop-like, coarse, diluted, reticular,
Univariate Analysis	Histogram of Lymphatics KDE of Lymphatics KDE of Lymphatics KDE of Lymphatics KDE of Lymphatics











Data Transformation	<pre>column_names = ["class", "lymphatics", "block_of_affere", "bl_of_lymph_c", "bl_of_lymph_s", "by_pass", "extravasates", "regeneration_of", "early_uptake_in", "lym_nodes_dimin", "lym_nodes_enlar", "changes_in_lym", "defect_in_node", "changes_in_node", "changes_in_stru", "special_forms", "dislocation_of", "exclusion_of_no", "no_of_nodes_in"] data.columns = column_names</pre>
Feature Engineering	Attached the codes in final submission.
Save Processed Data	Done