

CANCER DIAGNOSIS DASHBOARD

357

TOTAL RECORDS

212

MALIGNANT CASES

357

BENIGN CASES



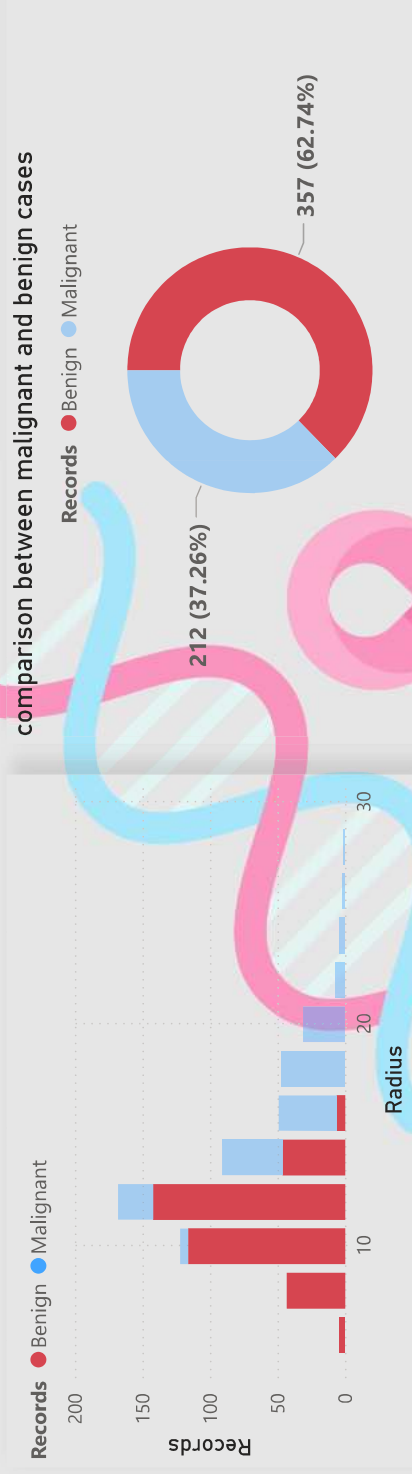
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Features plot



Features information

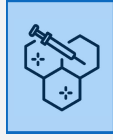


INSIGHT SUMMARY

- . Malignant tumors generally have higher values for **radius**, **smoothness**, and **concavity**-related features.
- . **Outliers** in the dataset are **mostly valid** and stem from **extreme cancer cases**.
- . **Log transformation** reduces skewness and brings features closer to a normal distribution.
- . Features like **radius_mean**, **concavity_mean**, and **symmetry_mean** are strong indicators of malignancy.
- . **Column chart** show clear separation between benign and malignant classes



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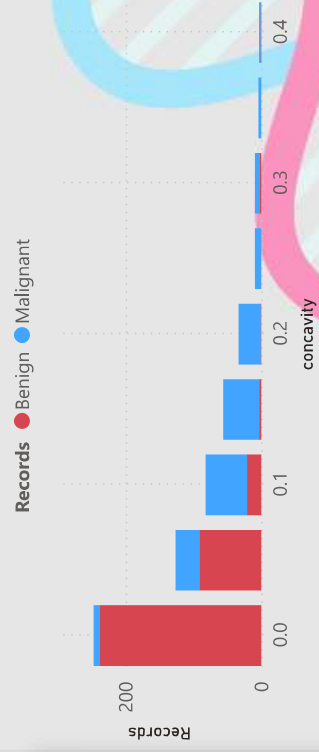
Features Plot



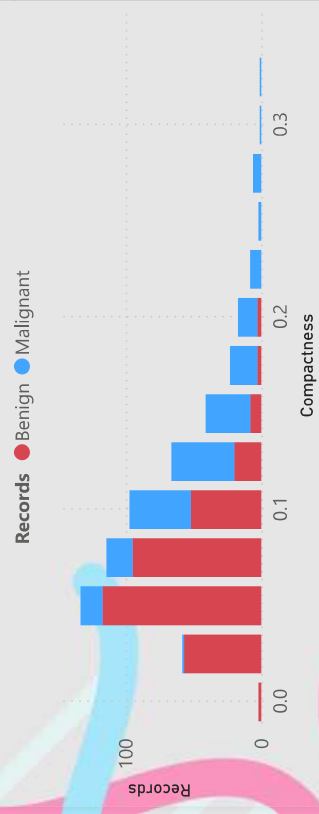
Features Information

Features Plot

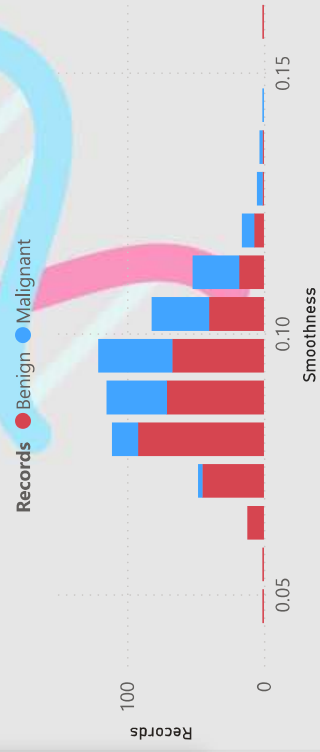
Comparing Concavity between Benign and Malignant tumor



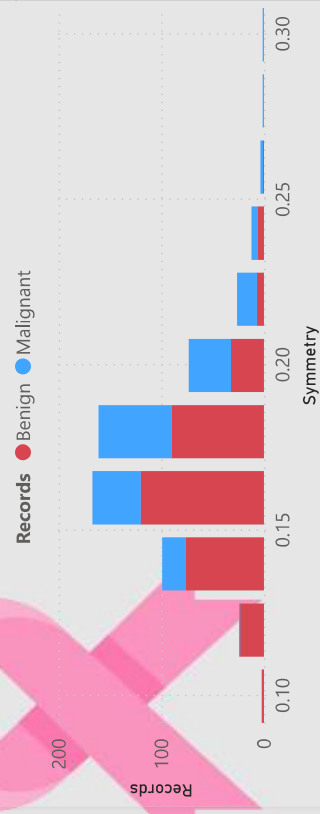
Comparing compactness between benign and malignant tumor



Comparing smoothness between benign and malignant tumor



comparing symmetry between benign and malignant tumor



ALL THE VALUES ALONG X-AXIS ARE IN "CM"



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Features plot



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Radius: It represents the **average distance** from the nucleus center to its boundary. It is calculated as the **mean of radial lengths**. **Malignant** cells typically show a larger radius due to abnormal cell growth.

Smoothness: It Indicates the **uniformity of the nucleus edges**. **Lower smoothness suggests jagged, irregular borders**, which are common in cancerous cells.

Compactness: It Measures the **density and shape compactness** of the nucleus. **Higher compactness** is often linked to **irregular and denser tumor shapes**.

Concavity: Concavity Captures the **severity of concave portions** (inward curves) of the cell boundary. High values indicate **more pronounced indentations**, which are typical in **malignant cells**.

Symmetry: Reflects the **degree of symmetry** in the shape of the cell nucleus. **Benign tumors are more symmetrical**, while **malignant ones often display asymmetry**.