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| |  |  | | --- | --- | | **Breast Cancer Data Set**  *Download*: [Data Folder](https://archive.ics.uci.edu/ml/machine-learning-databases/breast-cancer/), [Data Set Description](https://archive.ics.uci.edu/ml/machine-learning-databases/breast-cancer/breast-cancer.names)  **Abstract**: Breast Cancer Data (Restricted Access) | https://archive.ics.uci.edu/ml/assets/MLimages/Large14.jpg |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Data Set Characteristics:** | Multivariate | **Number of Instances:** | 286 | **Area:** | Life | | **Attribute Characteristics:** | Categorical | **Number of Attributes:** | 9 | **Date Donated** | 1988-07-11 | | **Associated Tasks:** | Classification | **Missing Values?** | Yes | **Number of Web Hits:** | 364525 |   **Source:**  Creators:   Matjaz Zwitter & Milan Soklic (physicians)  Institute of Oncology  University Medical Center  Ljubljana, Yugoslavia   Donors:   Ming Tan and Jeff Schlimmer (Jeffrey.Schlimmer **'@'** a.gp.cs.cmu.edu)  **Data Set Information:**  This is one of three domains provided by the Oncology Institute that has repeatedly appeared in the machine learning literature. (See also lymphography and primary-tumor.)   This data set includes 201 instances of one class and 85 instances of another class. The instances are described by 9 attributes, some of which are linear and some are nominal.  **Attribute Information:**  1. Class: no-recurrence-events, recurrence-events  2. age: 10-19, 20-29, 30-39, 40-49, 50-59, 60-69, 70-79, 80-89, 90-99.  3. menopause: lt40, ge40, premeno.  4. tumor-size: 0-4, 5-9, 10-14, 15-19, 20-24, 25-29, 30-34, 35-39, 40-44, 45-49, 50-54, 55-59.  5. inv-nodes: 0-2, 3-5, 6-8, 9-11, 12-14, 15-17, 18-20, 21-23, 24-26, 27-29, 30-32, 33-35, 36-39.  6. node-caps: yes, no.  7. deg-malig: 1, 2, 3.  8. breast: left, right.  9. breast-quad: left-up, left-low, right-up, right-low, central.  10. irradiat: yes, no.  **Relevant Papers:**  Michalski,R.S., Mozetic,I., Hong,J., & Lavrac,N. (1986). The Multi-Purpose Incremental Learning System AQ15 and its Testing Application to Three Medical Domains. 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