Breast Cancer Question Map (BCQM) Breast Cancer Diagnostic Logbook (BCDL) In this phase, the use of BCQM is proposed. The In this phase, the use of BCDL is proposed. The purpose purpose of the BCQM is for the Data Analysis of the BCDL is to store the answers obtained for each Team to define the questions that will be answered question posed in the BCQM and the relationship of at the end of each Release and that will allow these questions and answers with a given ML or DL medical decisions to be made regarding the model Stage 1 diagnosis of this disease. **Activity planning** Medical feedback In this phase the Data Analysis Team, based on In this phase, the medical oncology expert the questions asked in the BCQM, analyses all Stage 8 determines whether the results generated by the tasks to be carried out, estimates them in the ML or DL model succeeded in answering time and distributes them among the people the questions posed in the BCQM and who will carry them out during the Release whether the new information obtained is sufficient to diagnose breast cancer. **Data Science Methodology for** Stage 3/ **Breast Cancer Diagnosis** Oncology data acquisition (DSM-BCD) In this phase, based on the tasks performed in the **Evaluation and Interpretation** Stage activity planning, the medical oncology expert In this phase, the Data Analysis Team evaluates together with the engineer and the data scientist the model to understand its quality and ensure identify and gather the available data resources that it addresses the questions generated in the (structured, unstructured and semi-structured) and BCQM adequately and completely. It is relevant to solve the questions posed in the necessary that specialized measures based on BCQM. model performance, sensitivity and specificity **Exploratory Oncology Data Analysis** are used to perform the evaluation. In this phase, the scientist obtains the set of data Stage 5 or images that were previously organized by the engineer and performs an exploratory data **Modeling and Execution** analysis to discover general patterns in the information generated. The variables and patterns In this phase, the data scientist designs, creates or are verified by the oncology expert physician. uses a predictive or descriptive model and feeds it **Oncology Data Processing and** with the version of the dataset or images obtained. **Transformation** scientist must select the type of learning and the determined technique according to the questions This phase encompasses all activities to build the posed in the BCQM. dataset or images that will be used in the next stage of modeling and execution. Among the activities of oncology data processing and transformation are data cleaning, combining data from multiple sources, and transforming the data into variables of value.