Licenta-Baciu Ioana

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**Breast Cancer Detection**

**INTRODUCTION**:

Breast cancer is known to be the most common cancers among women. The American Cancer Society’s estimates for breast cancer in the United States alone for 2023 are that about 297,790 new cases of invasive breast cancer will be diagnosed in women and about 43,700 women will die from breast cancer. Since 1989, breast cancer death rates have been decreasing, believed to be as a consequence of early detection and increased awareness, as well as better treatments. This progress seems to have slightly stopped.(also taken from <https://www.cancer.org/cancer/types/breast-cancer/about/how-common-is-breast-cancer.html> but rephrased)

The main objective of this project is to understand and implement ways to detect the presence of cancerous, benign, or precancerous tumours in the breast in an efficient way, using machine learning. This would minimize the time doctors spend studying thousands of breast screenings to label them accordingly and aid early detection.

**THE SCIENTIFIC PROBLEM ADDRESSED**:

To be added…

**EXISTING METHODS OF SOLVING BREAST CANCER DETECTION**: