



# BREAST CANCER DETECTION USING SONOGRAM

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# HOW DOES AI TAKE PART IN HEALTHCARE ?

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**Artificial Intelligence (AI) is gaining traction in healthcare by providing solutions that enhance patient outcomes, accuracy, and efficiency. These are a few ways AI is advancing medical science.**

- **Drug Discovery:** Accelerates drug development by analyzing biological data to identify potential compounds.
- **Robotics-Assisted Surgery:** Enhances surgical precision and dexterity for better outcomes.

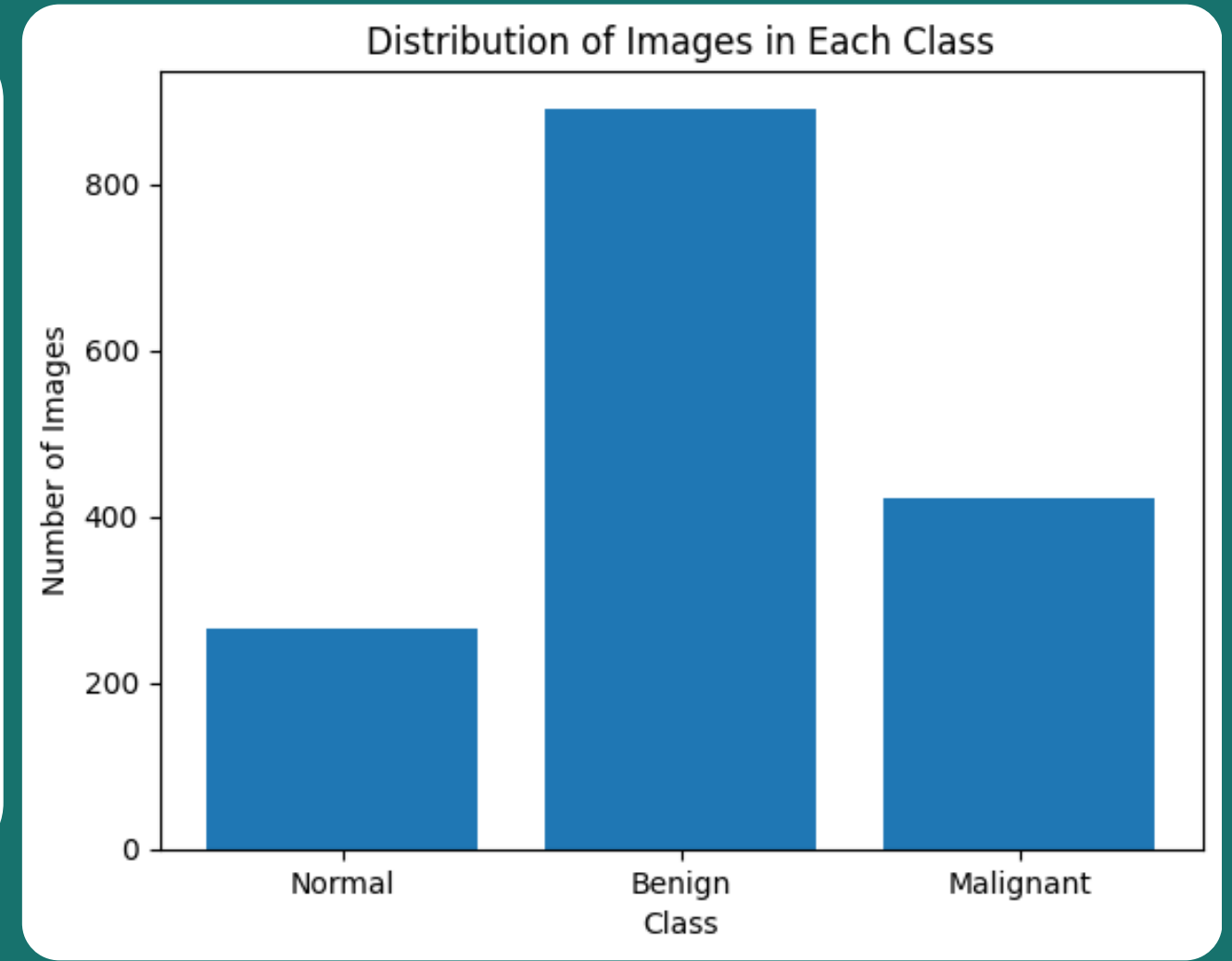
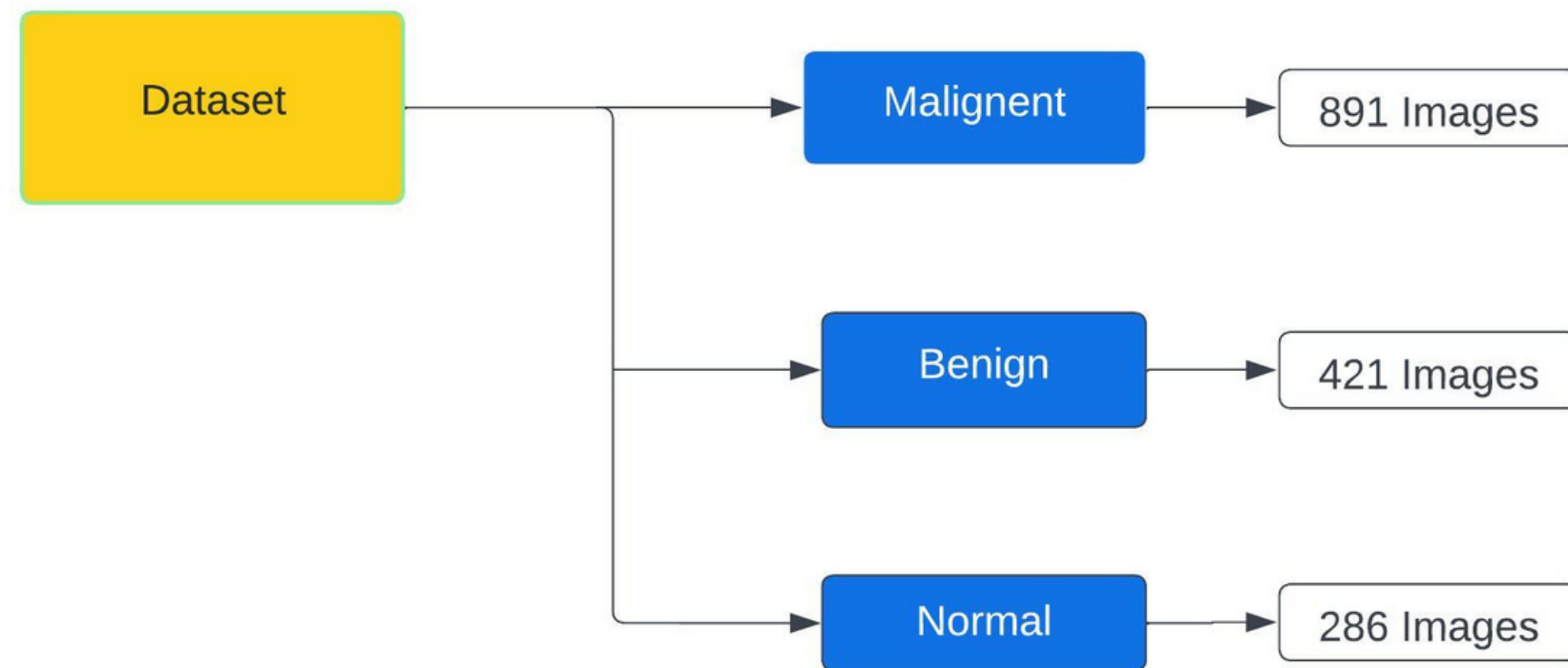
# Problem Statement

The objective is to create a breast cancer diagnosis system powered by Deep learning that is both highly accurate and readily available using sonar images. The model will quickly and precisely scan and analyze sonar images using advanced deep learning algorithms.

# DATASET

**Dataset Name :** Breast Ultrasound Images Dataset

**Link :** <https://www.kaggle.com/datasets/aryashah2k/breast-ultrasound-images-dataset>

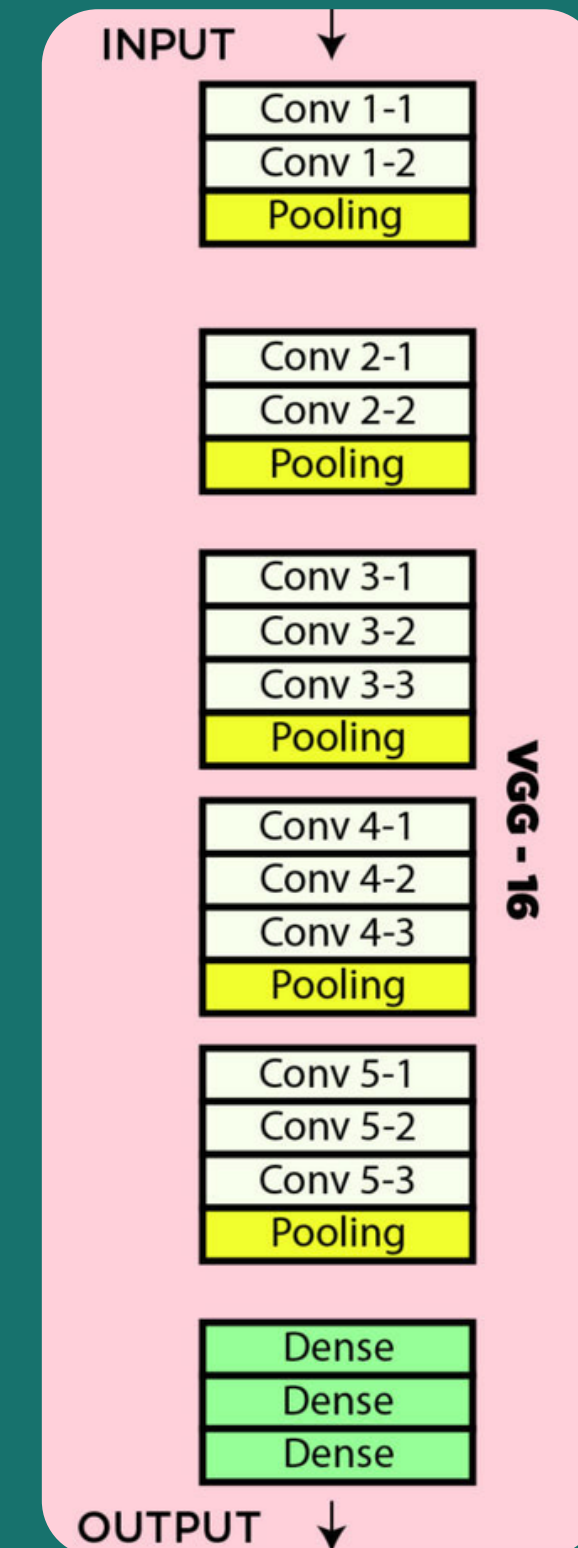
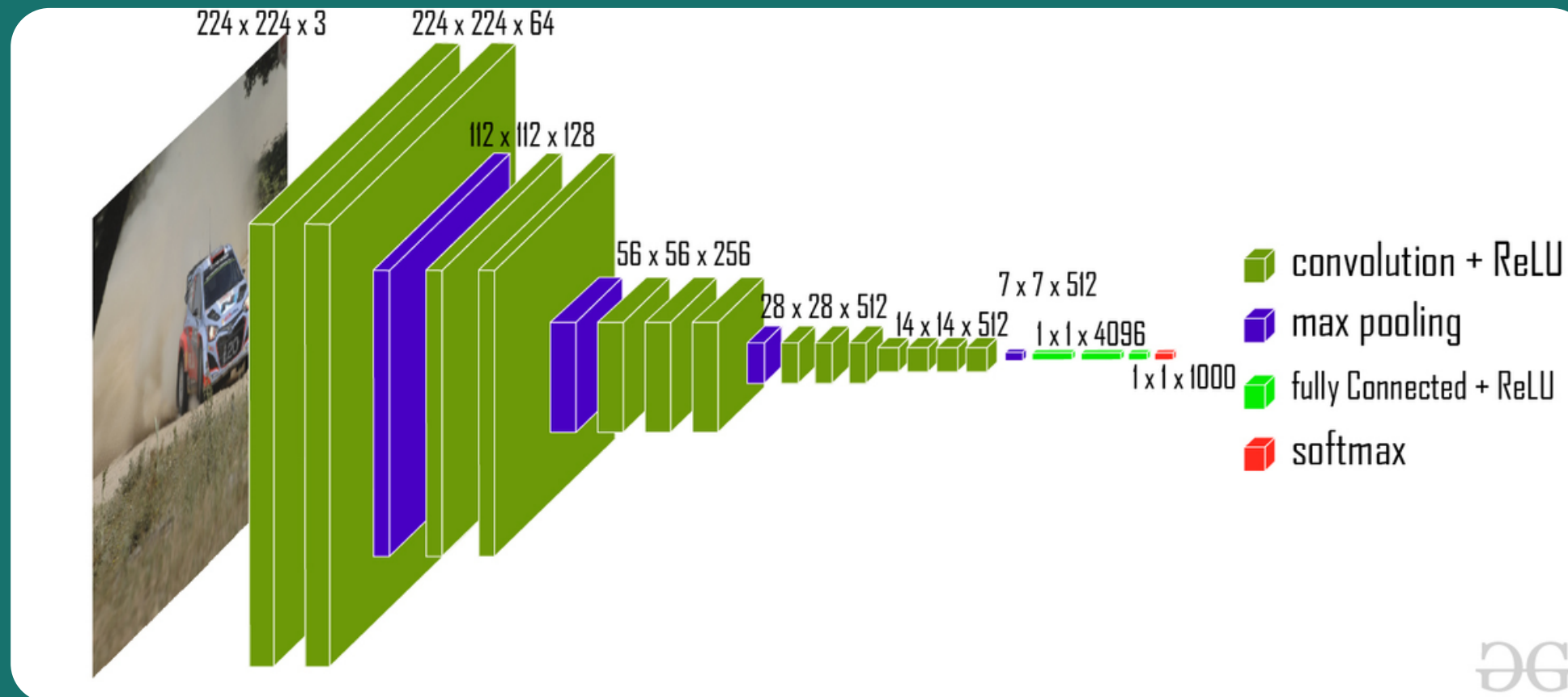




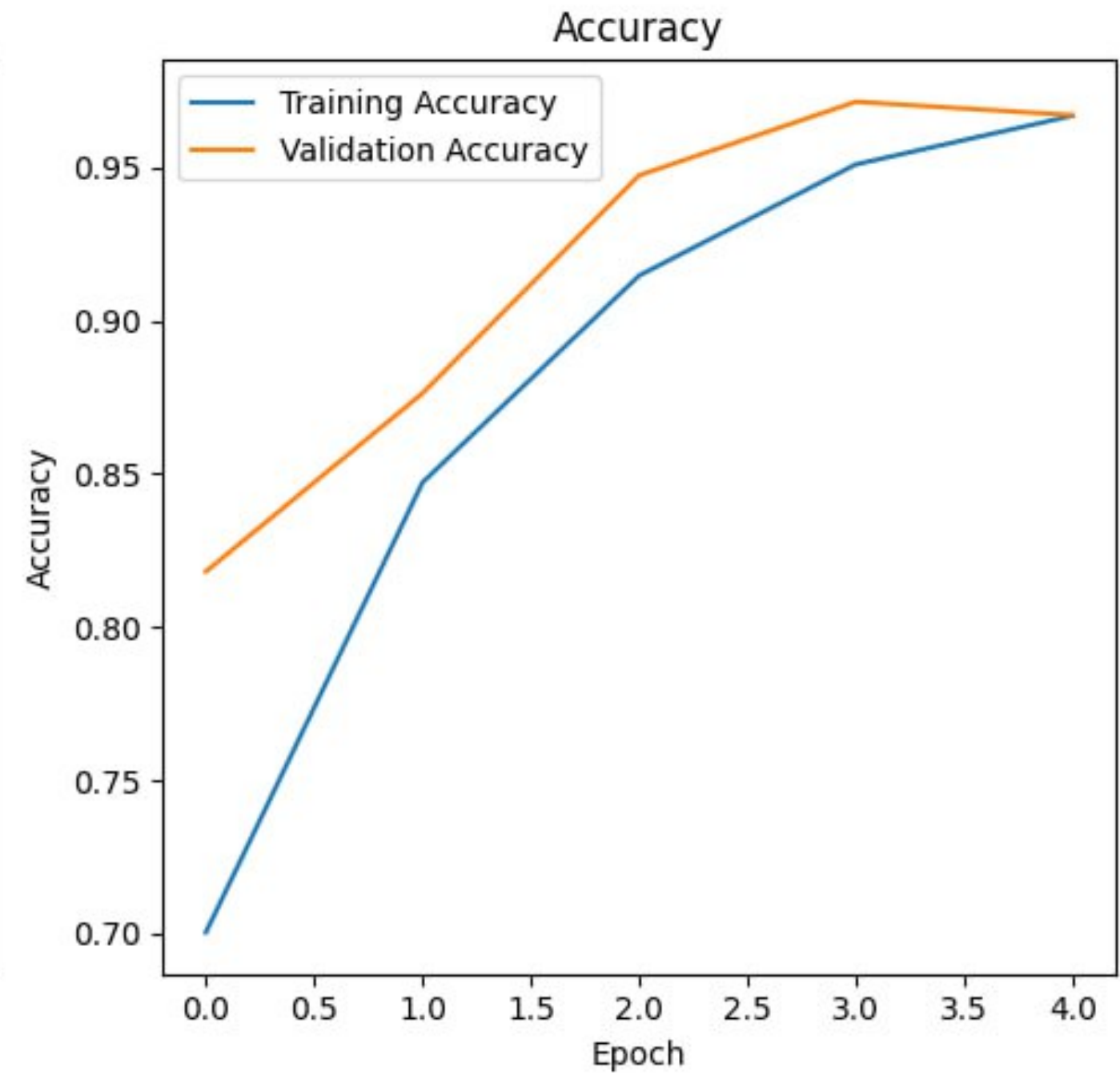
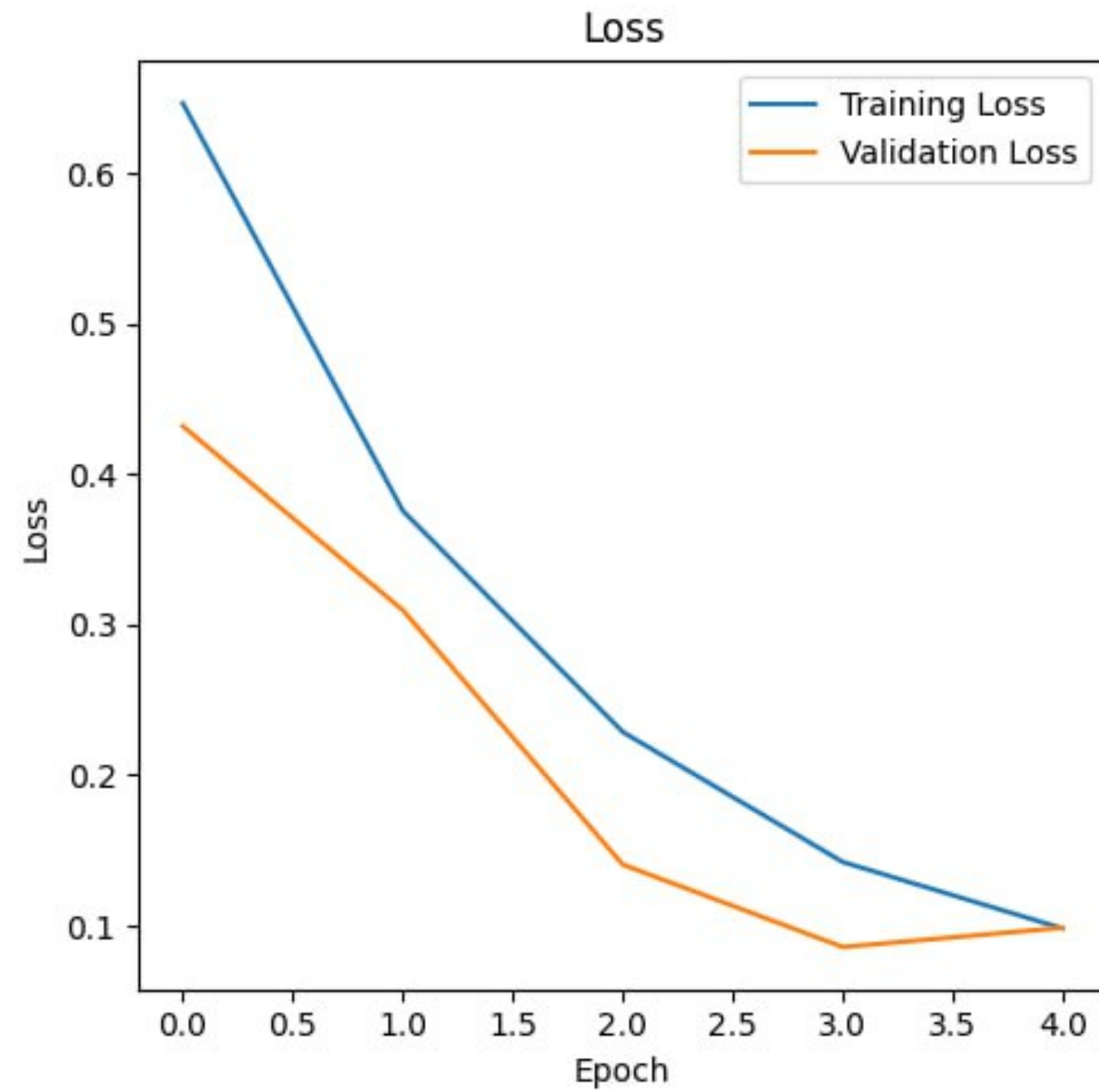
# Implementation

## VGG-16

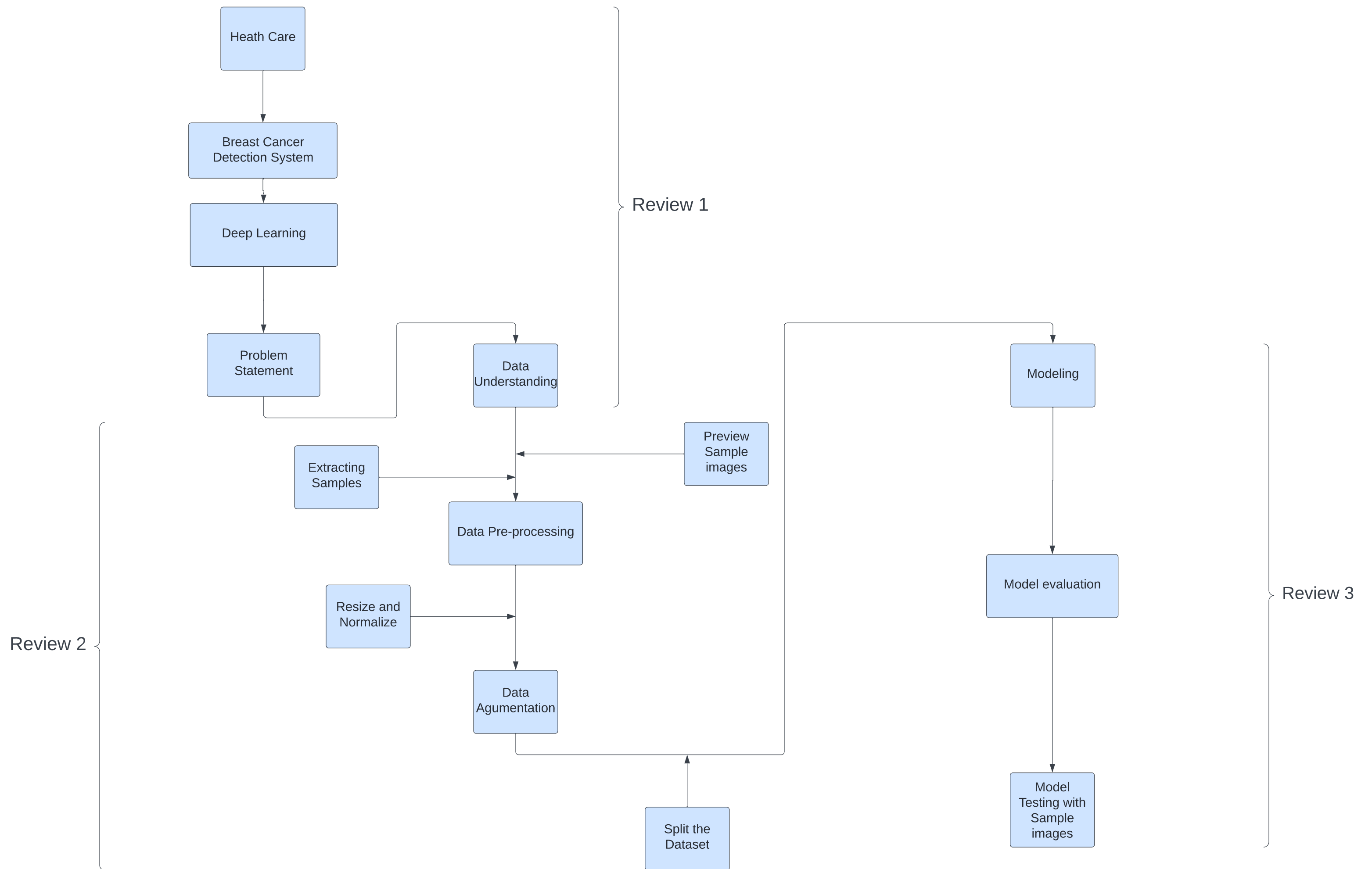
VGG16 is a deep neural network, meaning it has many layers that process information progressively. This depth allows it to learn complex features from images.



# Accuracy and Loss







**THANK YOU**

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