

Project Design Phase-I

Solution Architecture

Date	06 May 2023
Team ID	NM2023TMID17489
Project Name	CancerVision: Advanced Breast Cancer Prediction with Deep Learning

Solution Architecture:

(Breast cancer is one of the main causes of cancer death worldwide. Computer-aided diagnosis systems showed potential for improving the diagnostic accuracy. But early detection and prevention can significantly reduce the chances of death. It is important to detect breast cancer as early as possible. The goal is to classify images into two classifications of malignant and benign. As early diagnostics significantly increases the chances of correct treatment and survival. In this application we are helping the doctors and patients to classify the Type of Tumour for the specific image given with the help of Neural Networks.)

- The user interacts with the UI (User Interface) to choose the image.
- The chosen image analyzed by the model which is integrated with flask application.
- CNN Models analyze the image, then prediction is showcased on the Flask UI.

Solution Architecture Diagram:

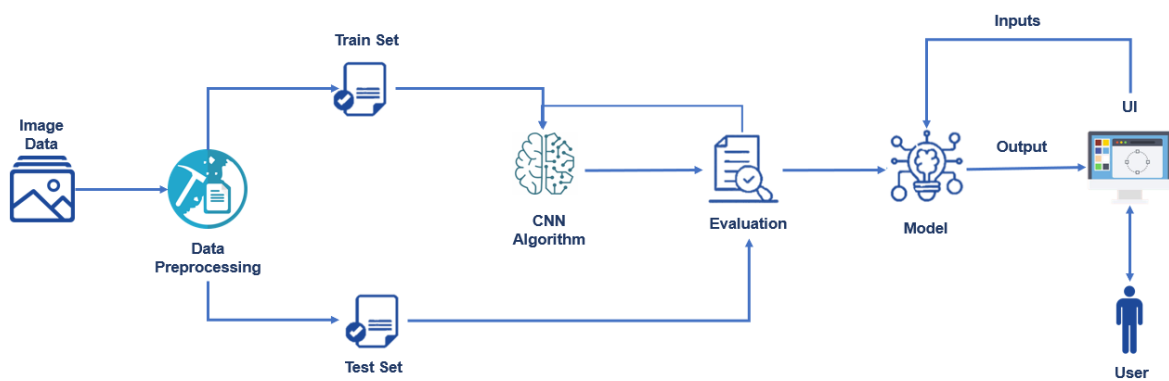


Figure 1: Architecture and data flow of the data and the outcome prediction.