

## CASE STUDY

# VIEWOMICS : AI Based Breast Cancer Prognosis & Treatment Optimization



## BUSINESS CONTEXT

- Current therapy options for Triple Negative Breast Cancer limited to cytotoxic drugs & radiation with poor prognosis & lower survival rates
- Limited number of Pathologist for the right staging and understanding of the diagnosis
- Delay in diagnosis can cost life, and reduce survival rate

## APPROACH AND SOLUTION

Tech Mahindra catered to the client problem as follows:

- AI based Solution points out the areas of interest, identify the percentage of Stromal TILs\* and suggest potential treatment options
- Image tiles extracted at different resolution levels from scanned slides, of varying sizes up to 400 MB and fed to multiple neural network models
- These state-of-the-art models were trained to build an ensemble classifier that provides an annotation mask. The data is used by a recommendation engine to suggest suitable treatment.

## IMPACT & HIGHLIGHTS



Assists pathologists in making rapid and accurate prognosis for every patient, every time



Better quality of life for patient with personalized treatment



Achieved Lower Mortality Rates

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