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