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Breast cancer detection

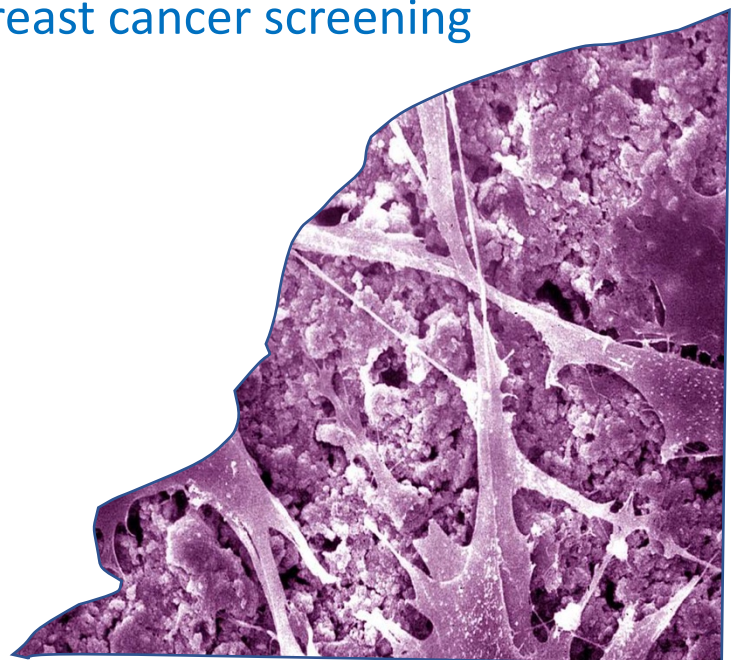
The case study explores the development of an automated system for breast cancer detection using mammograms. The system aims to improve accuracy, reduce costs, and address the radiologist shortage, potentially revolutionizing breast cancer screening and saving lives.

Benefits.

- Early mammography detection increases breast cancer survival by 25%.
- A 10% false positive reduction saves \$22M p.a. in the US.
- Automated systems increase breast cancer screening access in underserved areas.



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The objective of the case study is to evaluate the development and effectiveness of an automated system for detecting breast cancer using screening mammograms, with a focus on its potential to improve patient care, reduce costs, and address the radiologist shortage.

Solution.

- Automated systems have up to 96% accuracy, reducing patient anxiety and providing more precise diagnoses than human radiologists' 85-90% accuracy.
- Early detection of breast cancer is crucial to reduce fatalities
- Traditional screening methods can be expensive and produce false positives
- RSNA aims to develop an automated system using mammograms to improve accuracy, reduce costs, and alleviate the radiologist shortage

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