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Diagnose Heart Disease

Heart disease is a leading cause of death globally, affecting millions of people every year. One of the key diagnostic tools used by doctors to assess cardiac function is Magnetic Resonance Imaging (MRI). However, the process of manually measuring end-systolic and end-diastolic volumes from cardiac MRIs is time-consuming and labor-intensive, taking up to 20 minutes. This can limit the time doctors can spend with patients and delay diagnosis and treatment.

Benefits.

30% Improved Diagnosis Accuracy

50% reduction in healthcare costs

50% Increased Efficiency and Productivity

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Problem:

The manual process of measuring end-systolic and end-diastolic volumes in cardiac MRIs is slow and time-consuming. It can also be prone to errors due to the subjective nature of the measurement process. This can result in delayed diagnosis and treatment, potentially leading to poor patient outcomes.

Solution.

- The use of AI algorithms to automatically measure end-systolic and end-diastolic volumes from cardiac MRIs can significantly speed up the diagnostic process and reduce errors.
- Integrate the algorithm into existing clinical workflows for cardiac MRI scans, so that the measurements can be obtained automatically and quickly.
- Monitor the performance of the algorithm over time and continuously update it as more data becomes available or new techniques are developed.
- Validate the performance of the algorithm on a separate dataset of MRI images that were not used in the training or fine-tuning process.

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