Advancing Breast Cancer Diagnostics and Physician Support Software

Introduction

In the field of medical image processing, innovation plays a crucial role in revolutionizing diagnostic methodologies and improving patient outcomes. This case study highlights the journey of a company, initially comprising 20 individuals and growing to a team of 80 professionals, all from Hungary. The company embarked on projects aimed at advancing breast cancer diagnostics and developing physician support software for measuring joint gaps and erosion in human extremities.

The Story

The company's endeavors in medical image processing centered around two key projects: enhancing breast cancer diagnostics and creating physician support software. In the breast cancer diagnostics project, the team worked on analyzing images of breasts captured in Dicom format. These images, although in low resolution, were transilluminated by high-brightness LED diodes and subsequently analyzed using neural networks. The project aimed to enable comprehensive examinations of breast tissue, allowing for the detection of various changes without the need for invasive procedures like biopsies. Simultaneously, the team developed physician support software designed to assist in measuring joint gaps and erosion in human hands and feet, facilitating more accurate diagnostics and treatment planning.

The Challenge

The primary challenge faced by the company was finding suitable software to display medical images and facilitate interactions for both projects. This involved devising test plans, strategies, and scenarios for implementation, as well as manual testing and refining of algorithms for neural network analysis. The complexity of the task required careful consideration of various software options to ensure compatibility with the team's requirements and objectives.

The Results

After meticulous evaluation and testing of several software solutions, the company successfully identified a suitable platform that met their needs for both projects. This software enabled the team to display medical images effectively, perform necessary interactions, and refine neural network algorithms for accurate analysis. With the chosen software in place, the company made significant strides in advancing breast cancer diagnostics and physician support capabilities, contributing to improved patient care and outcomes. The successful outcome underscored the team's dedication, expertise, and collaborative efforts in the field of medical image processing.

Let's Chat! Let's Build Your Idea together!

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