

Teeth Problem Detection using Deep Learning and Image Processing Technology

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Abstract: Dentists often rely on dental X-rays to spot cavities, bone loss, and hidden dental issues not visible to the naked eye. These X-rays help catch problems early and create effective treatment plans. We look at three types of X-rays: bitewing, periapical, and panoramic. Bitewing X-rays show part of the upper and lower teeth and help find bone density changes due to gum disease. Periapical X-rays show all teeth and help check the bone and roots in the upper and lower jaw. We also use technology to determine a patient's age. This survey summarizes how technology improves dental care by helping dentists diagnose and treat oral health problems effectively. It's a win-win for both dentists and patients.

Keywords: Deep Learning, Image Processing, X-rays, Dentists, Cavities, Oral Cancer, disease, CNN

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