

Classification of Dental Alignment in X-Ray Images using Machine Learning

*Dr. k.Sivakumar¹, Dr.Kumutha²,Dr.Sree Rama³,

^{1,2,3}Professor Department of Biomedical Engineering, Karpaga Vinayaga College of Engineering and Technology, Chengalpattu, TN, India

Corresponding author: skvijaykumu@gmail.com

ABSTRACT

Dental diseases like dental anomalies, periapical abscess, and dental caries are increasing day by day in children and adults. Artificial intelligence and neural networks, with their application in medical imaging, are influencing the health-care industry. X-ray imaging is the most commonly employed technique to diagnose diseases of the teeth. Segmentation and classification of differing dental anomalies using neural networks is proving to be a boon to the dental field. Application of neural algorithms aids in obtaining images with better detection accuracy. Automated detection reduces the workload of a dentist with classification being accurate. A better penetration of machine learning into these processes highlights its advantages to classify dental X-ray images. Powerful machine learning techniques are deployed to detect dental caries from X-ray images. Computer Vision is used to perform Jaw separation from the X-rays

Keywords: Surveillance Camera, CCTV, Object tracking.

Organized by Department of Information Technology, St. Martin's Engineering College

www.smec.ac.in

ISBN 978-93-91420-23-9