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AI-KIDNEY DISEASE DETECTION

Shenkela, Vasanth Kumar Reddy; Ganesh, Reddy; Sriram; Varshini

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1st Neeraj
Computer Science and Engineering
Vadodara, Gujarat
neeraj.40547@paruluniversity.ac.in

2nd Shenkela Vasanth Kumar Reddy
Computer Science and Engineering
Vadodara, Gujarat
2203031250090@paruluniversity.ac.in

3rd Kota Ganesh Reddy
Computer Science and Engineering
Vadodara, Gujarat
2203031250047@paruluniversity.ac.in

4th Udayagiri Venkata Sree Rama Vara Prasad
Computer Science and Engineering
Vadodara, Gujarat
2203031250099@paruluniversity.ac.in

5th Baludira Hima Varshini
Computer Science and Engineering
Vadodara, Gujarat
2203031250014@paruluniversity.ac.in

Abstract—This research seeks to create and test a new AI model that combines YOLO, Seg-Net, VGG-16, VGG-19, and Efficient-Net to improve the accuracy and efficiency of kidney disease diagnosis based on medical imaging. The model streamlines the detection, segmentation, and classification of kidney disorders to minimize diagnostic compromised. Advances in artificial intelligence (AI) and deep learning provide[1] a transformative potential to address these demands. Through the automation of kidney abnormality detection, segmentation, and classification, AI has the potential to improve diagnostic accuracy, decrease processing time, and

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