**RENAL TUMOR DETECTION USING DEEP LEARNING**

An innovative methodology for the early detection of kidney diseases, specifically targeting renal tumors, through the integration of deep learning techniques utilizing TensorFlow and Keras. The primary objective is to develop a robust model capable of accurately analyzing CT scans for identifying potential abnormalities in the kidneys. Leveraging the power of neural networks, the system is designed to discern subtle patterns indicative of renal tumors, enhancing diagnostic precision.

To make this technology accessible to healthcare practitioners, a user-friendly graphical user interface (GUI) has been implemented. This GUI facilitates a seamless interaction between users and the deep learning model. Clinicians can easily upload CT scans, initiating an automated analysis process. The system then generates prompt and reliable results, aiding healthcare professionals in making informed decisions promptly.

The integration of TensorFlow and Keras ensures the model's efficiency and accuracy, contributing to the overall advancement of medical diagnostics. The proposed system holds promise for revolutionizing kidney disease detection, offering a sophisticated tool that combines cutting-edge technology with user-friendly interfaces for enhanced clinical applications.

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**REFERENCES:**

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