Submission Summary

Conference Name	International Conference on Computer, Communication and Signal Processing 2025
Paper ID	358
Paper Title	Transforming Cardiac Diagnostics with Machine Learning Powered Cardio Acoustic Analysis
Abstract	This research presents an innovative method for analyzing heart sounds by integrating machine learning models into an accessible web application created with the Django framework. In order to identify and diagnose various heart illnesses early on, The main objective is to establish a trustworthy and efficient system for classifying cardiac sounds from audio recordings. The system provides thorough medical information, including linked illnesses, their causes, preventative measures, etc., after analyzing and classifying heart sound recordings into several groups. The Django framework is a powerful backend solution that ensures secure data management and smooth user interaction. The ability of the system to store and retrieve historical data from a centralized database makes it a valuable tool for clinicians to monitor and assess heart health. By combining machine learning with a scalable internet application, the initiative aims to encourage the broader usage of automated heart sound analysis, which will ultimately improve patient outcomes and medical procedures.
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