

## **Demo Thesis 1**

Title: Leveraging Machine Learning for Early Disease Diagnosis in Remote Areas

Abstract: This thesis explores the application of machine learning algorithms, specifically convolutional neural networks, to analyze medical imaging data for the early detection of common diseases in underserved rural communities. It evaluates the performance of various models against traditional diagnostic methods and discusses deployment challenges.

Keywords: Machine Learning, Healthcare AI, Rural Health, Disease Diagnosis, Convolutional Neural Networks

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