Alzheimers Detection Accuracy : Amobilenet Implementation

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Abstract: *Alzheimer's disease is a progressive neurodegenerative disorder that causes cognitive decline, where early detection is essential for effective patient care and timely intervention. MRI imaging provides reliable insights into structural brain changes linked to AD, but traditional diagnostic methods are often subjective, slow, and error-prone. To address these challenges, this project implements a lightweight deep learning model using MobileNet, which employs depthwise separable convolutions for computational efficiency. The model achieves high diagnostic accuracy with reduced resource requirements, making it suitable for real-time detection, portable healthcare, and clinical integration*

Keywords: Alzheimer's disease detection, MobileNet, Deep learning, MRI imaging