

# Yoga Pose Assessment Method Using Pose Detection for Deep Learning

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**Abstract:** *An approach to accurately recognize various Yoga pose Assessment using deep learning algorithms has been presented in this work. In this system, we propose a Yoga pose assessment method using pose detection to help the self-learning of Yoga. The system first detects a Yoga pose using multi parts detection only with PC camera. In this system, we also propose an improved algorithm to calculate scores that can be applied to all poses. Our application is evaluated on different Yoga poses under different scenes, and its robustness is also. A hybrid deep learning model is proposed using convolutional neural network (CNN) and long short-term memory (LSTM) for Yoga recognition on real-time videos, where CNN layer is used to extract features from key-points of each frame obtained from Open-Pose and is followed by LSTM to give temporal predictions..*

**Keywords:** Yoga pose

