Project Proposal

**INTENDED TECHNOLOGIES**

In most research projects that processes sequential time-series data, recurrent units are most often used in the implementation of the models. This project will include time-series data, but there has been recent work that has suggested that it might not be the best way to go with this project. [1] Researchers have recently done something very similar to what we are working on. In their testing they used a few different architectures to find the level of correctness that an individual is performing a physical rehabilitation exercise. The one that performed the best was a convolutional neural network. Since we will be using images of independent exercises states, we will be using a convolutional neural network.

**REFERENCE:**

[1] “A Deep Learning Framework for Assessing Physical Rehabilitation Exercises”

<https://arxiv.org/ftp/arxiv/papers/1901/1901.10435.pdf>