

Journal 0

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1 Proposed Idea

To train a neural network to recognize the difference between an experienced and an inexperienced rower and create an application that provides feedback on how a user should adjust their stroke in order to row more like an experienced rower.

2 Why do I want to change it?

I am not completely confident that this project will work due to the wide variability in the strokes of experienced rowers as well as different body types affecting a rower's technique.

3 New Ideas

Other project ideas could involve speaker recognition or creating a voice to text program. We could also do something that recognizes and identifies/categorizes objects that could, for example, be applied in self-driving cars to avoid deadly crashes.

4 3 Sentences

Oftentimes, a coach cannot keep track of every issue with every rower's technique, and the rowers may not be able to recognize what they are doing ineffectively. A neural network can be trained to recognize the difference between an experienced and an inexperienced rower. My project is to collect data on the body motions of a set of inexperienced rowers and to do the same on a set of experienced rowers, using a neural network to recognize typical mistakes that an inexperienced rower makes on the rowing machine and creating a program that provides live feedback to the rower.