Machine Learning for Image Processing in Orthopaedics

ORS Virtual Scientific Session

Andrew J. Jensen
University of Florida
www.ajensen.org

January 4, 2023

A brief introduction

“Machine learning, neural networks, and artificial intelligence are increasingly being used in orthopaedics for image processing and analysis tasks. These techniques can be used to **automatically analyze medical images** such as X-rays, MRI scans, and CT scans to **extract important diagnostic information** and help with diagnosis and treatment planning. Machine learning algorithms can be trained to **recognize patterns in the images**, and neural networks can be used to process and interpret the data in a more human-like way. These approaches can be used to **identify abnormalities, measure bone density, and classify different types of tissue**, among other tasks. By automating these processes, doctors and other healthcare professionals can **save time and improve the accuracy of their diagnoses**”

- ChatGPT (emphasis mine)

That sounds great and all, but...

What does that mean?

How do I do that?

That sounds like magic.

Presento

The design is clean

The rules are simple

The code is extensible

This is an item

This is another

Open Source Fonts

This is Montserrat

This is Noto Sans

This is Lato (light)

This is inconsolata

THIS IS ALEGREYA SANS SMALL CAPS

Color Palette

BIG BOLD TEXT


RUN!