Osteo-Doc AI Based Osteoarthritis Grading and Exercise Management

Abstract

Various Deep learning models are being used for autonomous detection of diseases. Osteoarthritis has been detected as the most common form of Arthritis, therefore we have proposed a tri-weightage classification model i.e., a hybrid approach for grading osteoarthritis using X-ray images, KOOS questionnaire and flexion angle as a solution for evaluation of knee osteoarthritis.

Objectives

- Develop Android App for Tri-Weightage classification
  - X-Ray Grading using AI Model
  - KOOS Questionnaire
  - Virtual Goniometer
- Generation of progress reports

Accomplishments

- FICS final stage
- Paper Published in ICODT2 (Best paper of the session)

Group Members

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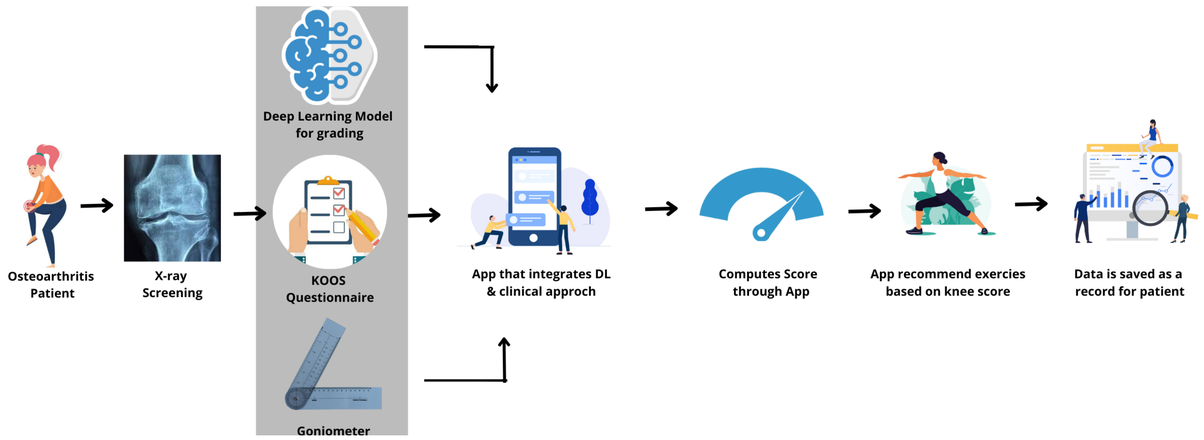
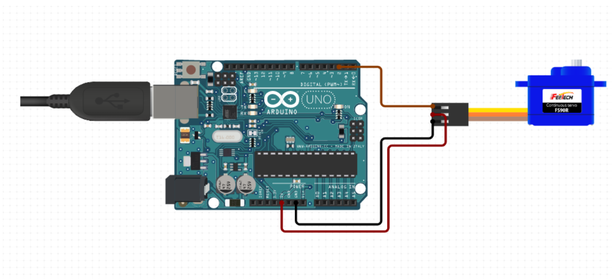
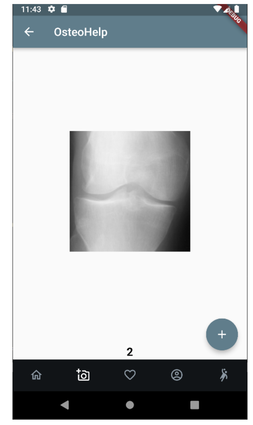
Figures / Results







Tools Used

Dart
ANACONDA

Department of Electrical Engineering