

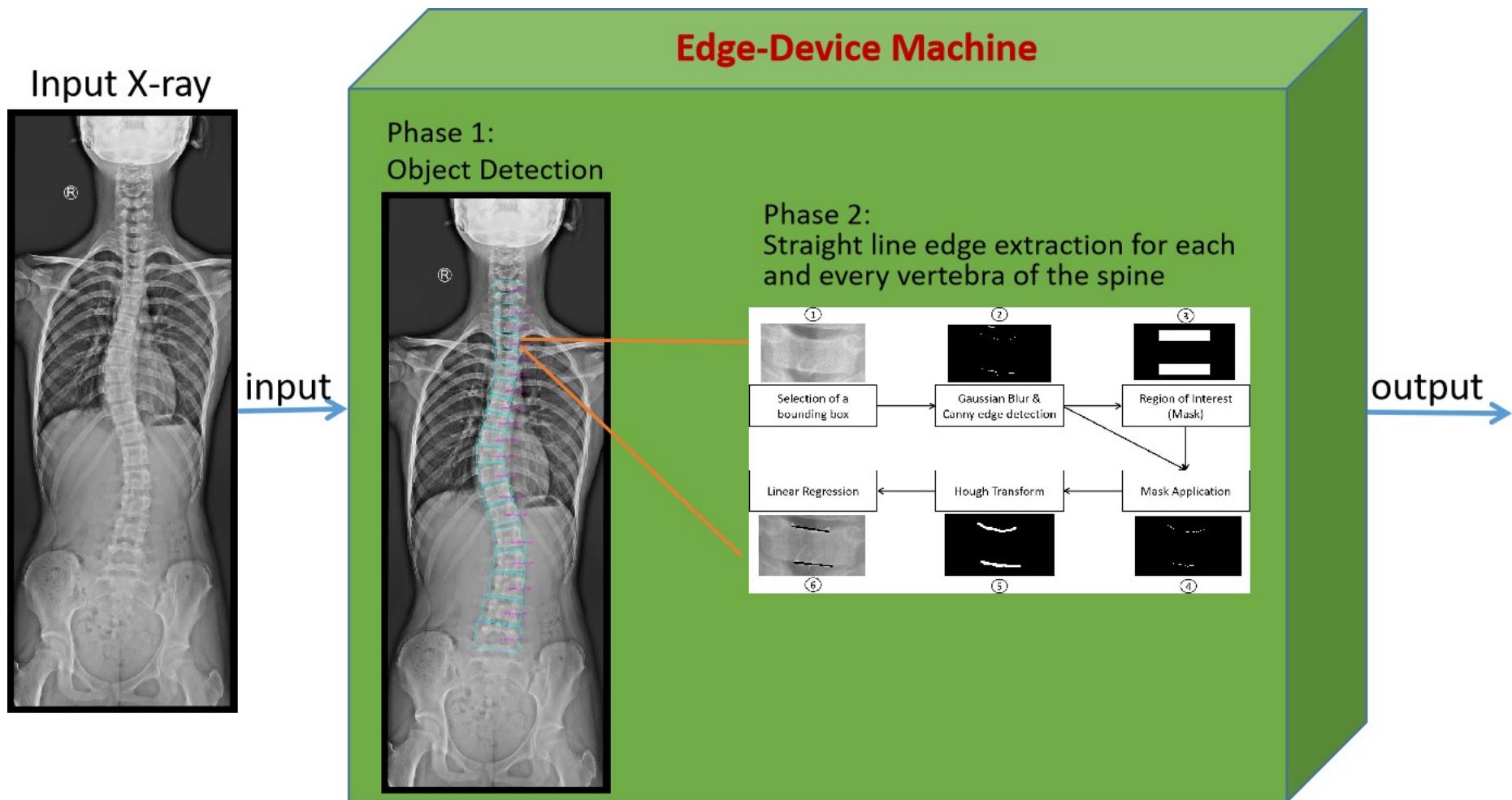
Scoliosis Project

Scoliosis - Cobb Angle Estimation

- Input: x-ray image
- Description: Detection of the spinal vertebrae.
- Output: Estimation of the Cobb angle, and the shape of the scoliosis.

Additional Features:

- Rotated Bounding Boxes
- Edge Detection



Spine Assessment

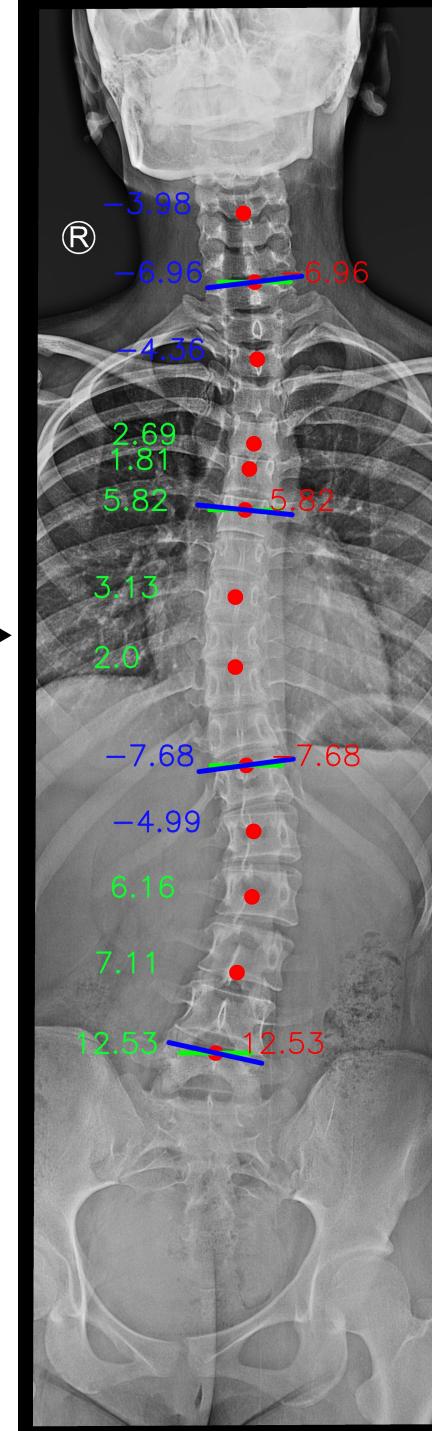
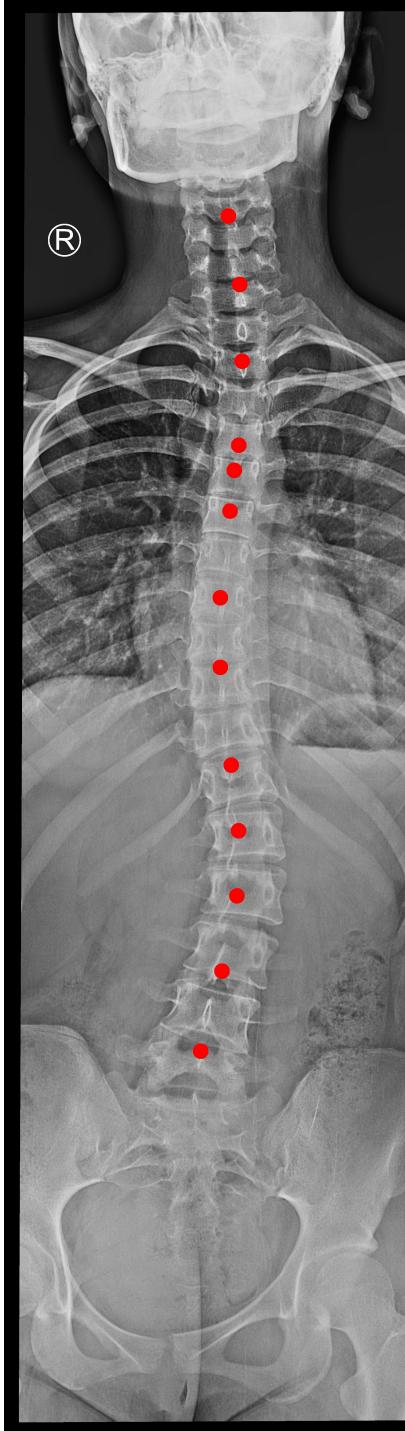
- Thoracic Kyphosis
- Lumbar Lordosis
- Scoliosis shape: S, C
- Cobb angle calculation
- Curvature assessment
- etc...

Scoliosis - Cobb Angle Estimation

Phase 1: Vertebrae Detection

- Models Implemented

- SSD-Mobilenet
- SSD-ResNet101



Scoliosis - Cobb Angle Estimation

Phase 2 - Edge Detection

