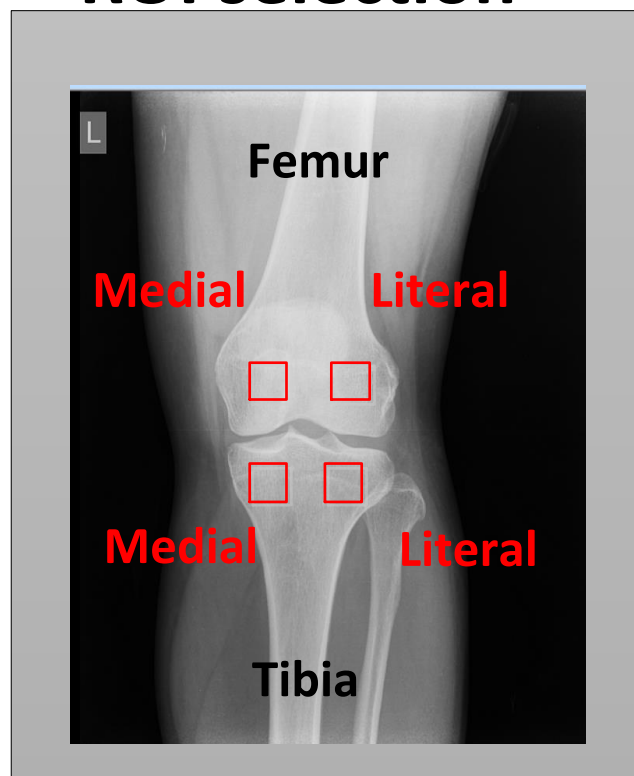# Research Framework

ROI selection

(a)

Texture analysis

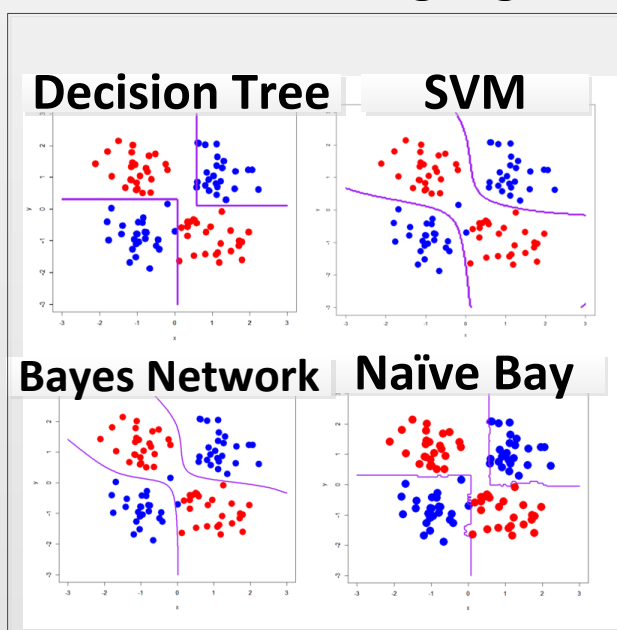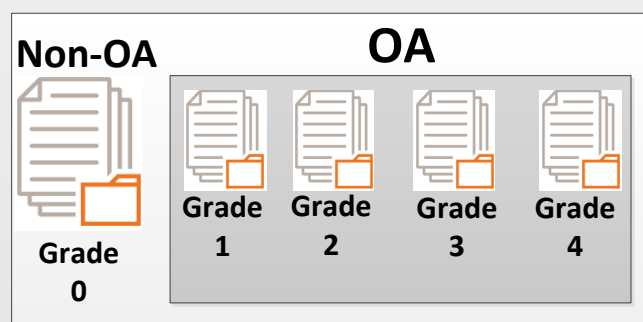**Medial Femur Texture ROI**

Texture Descriptor

Feature Discretization

Feature Selection

CFS
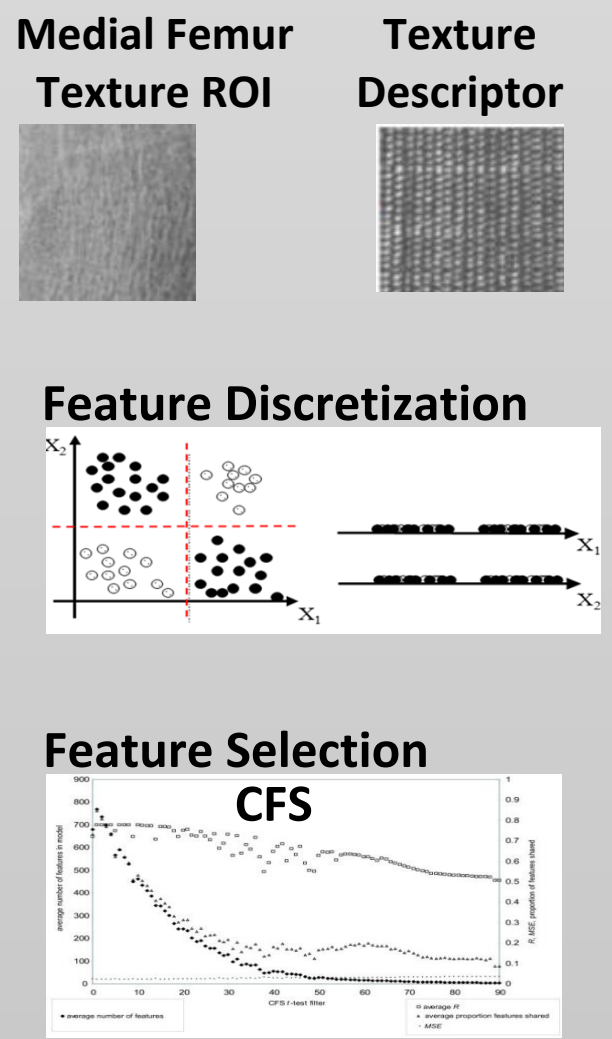
(b)

Classification

Machine Learning Algorithm

Decision Tree	SVM
Bayes Network	Naïve Bay

Result

Non-OA

OA

Grade 0

Grade 1

Grade 2

Grade 3

Grade 4

(c)