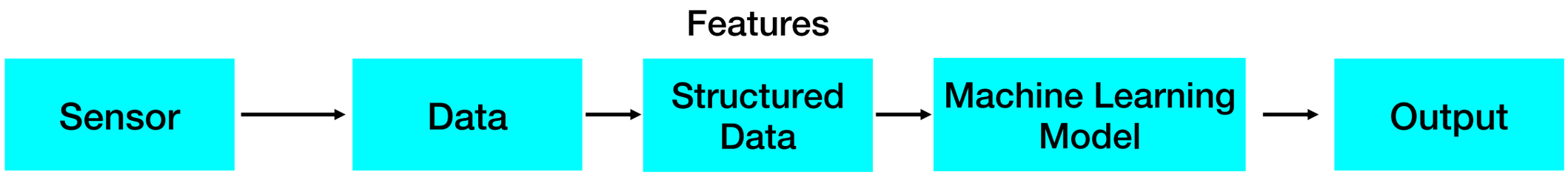
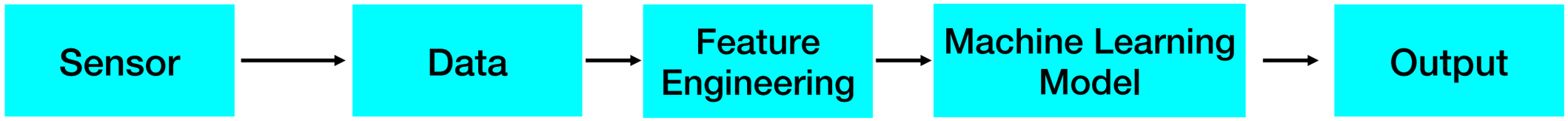
Feature Engineering - 1

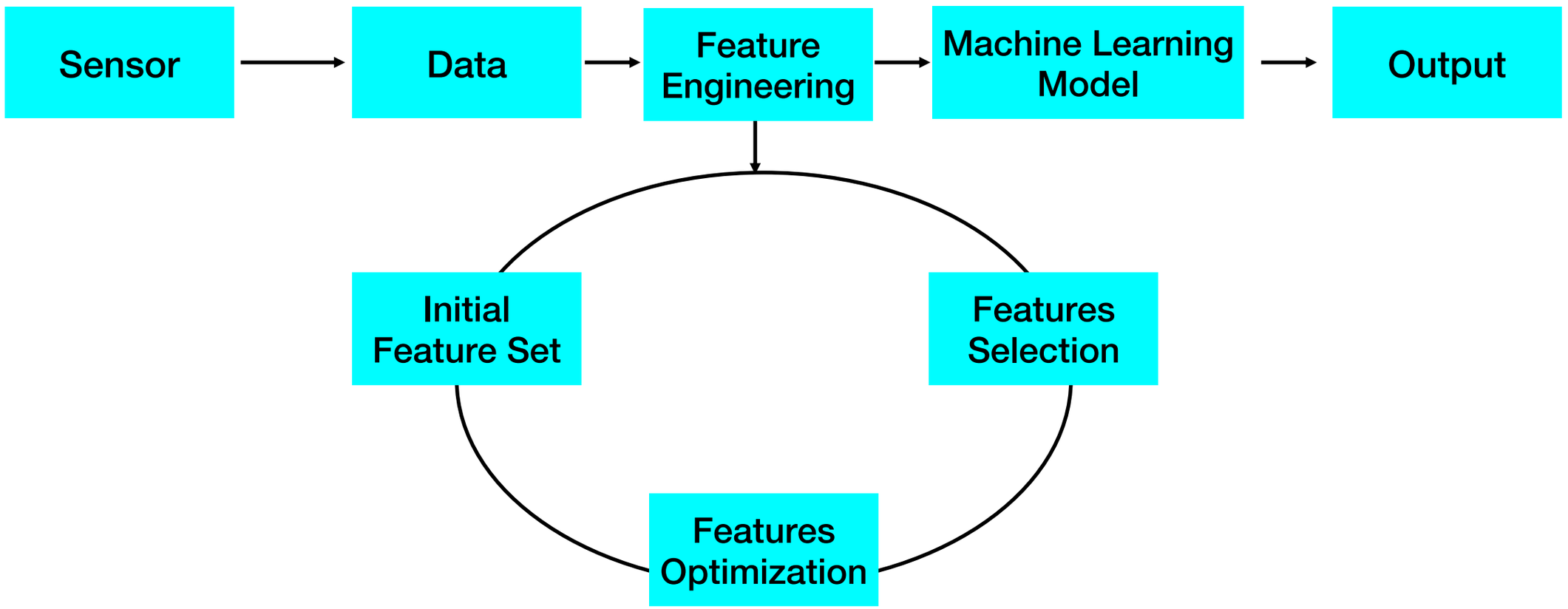
Sai

Features

- Essence of applied machine learning!


Features
Sensor
Data
Structured Data
Machine Learning Model
Output


Sensor
Data
Feature Engineering
Machine Learning Model
Output


Sensor
Data
Feature Engineering
Machine Learning Model
Output
Initial Feature Set
Features Selection
Features Optimization

vs.

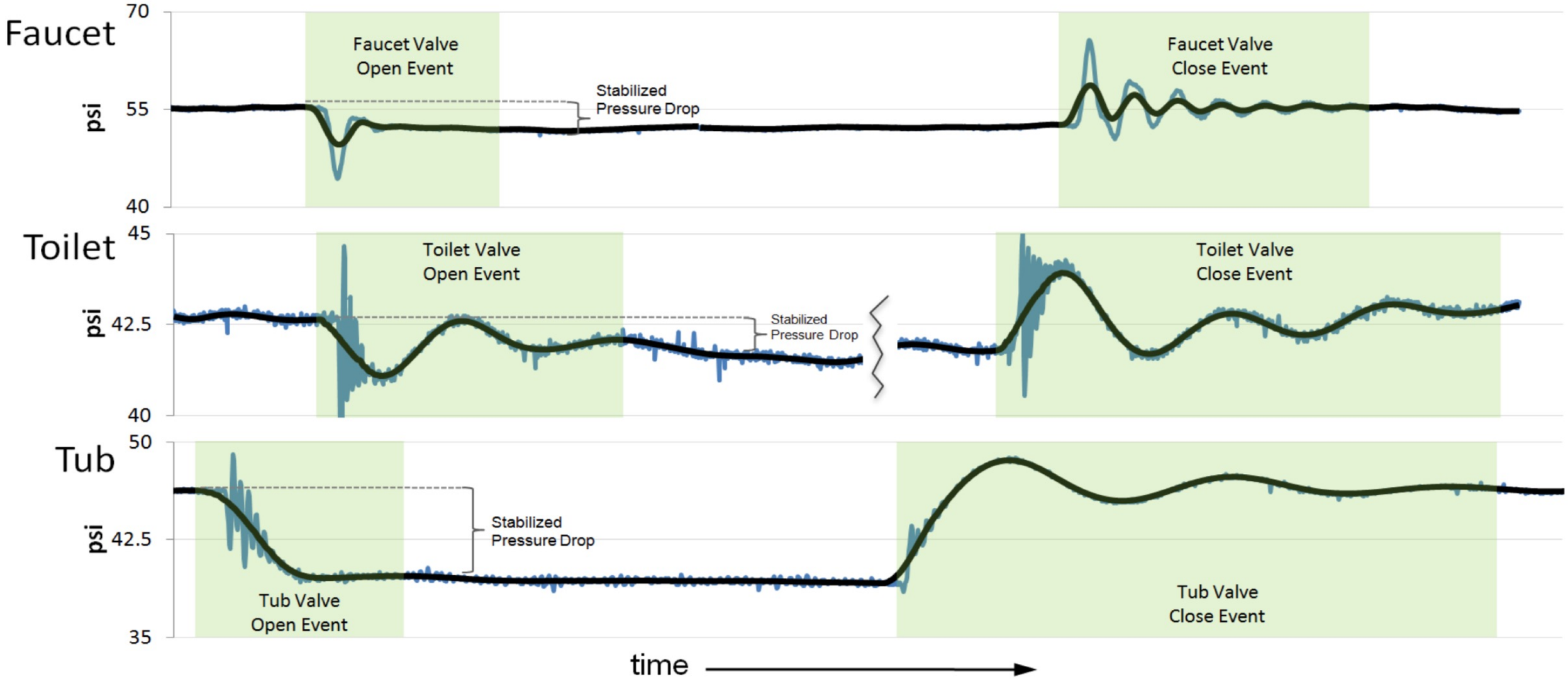
Is the fruit more “red” or “orange”?

red + *some amount of* green

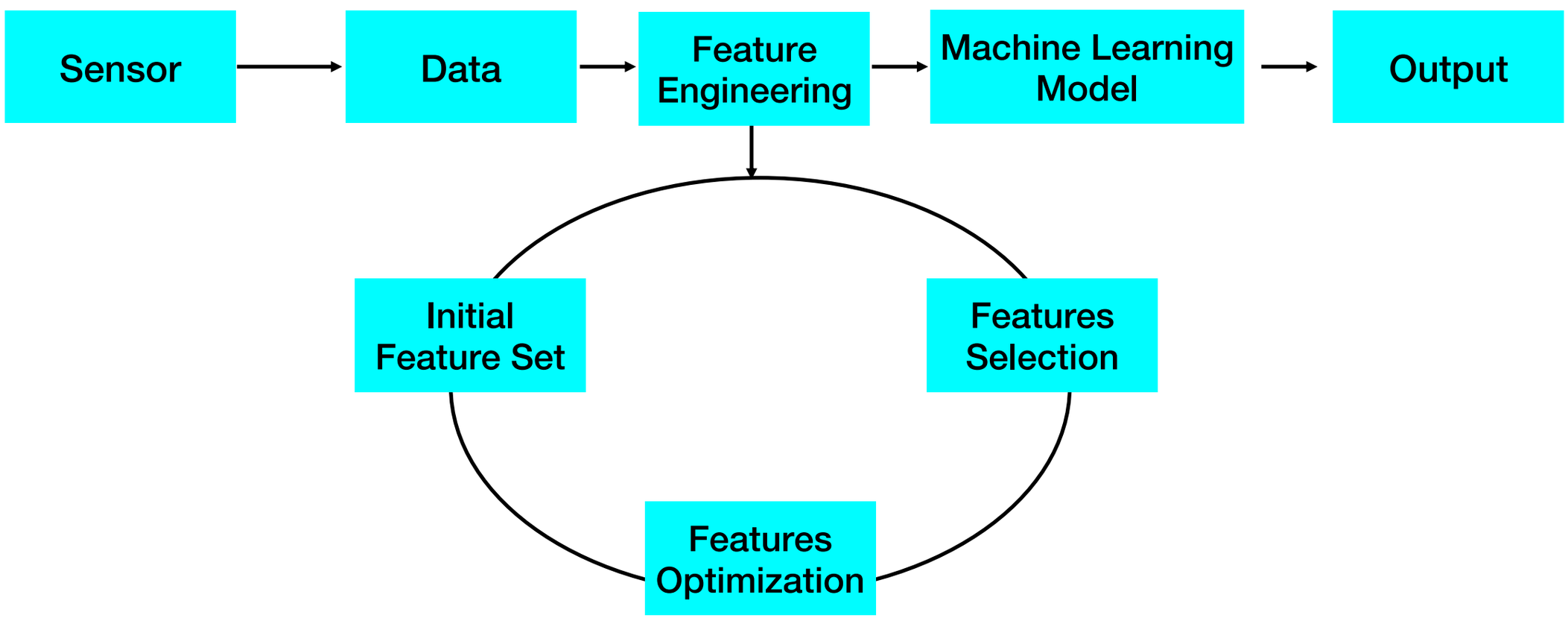
But what is the right way to measure the color?

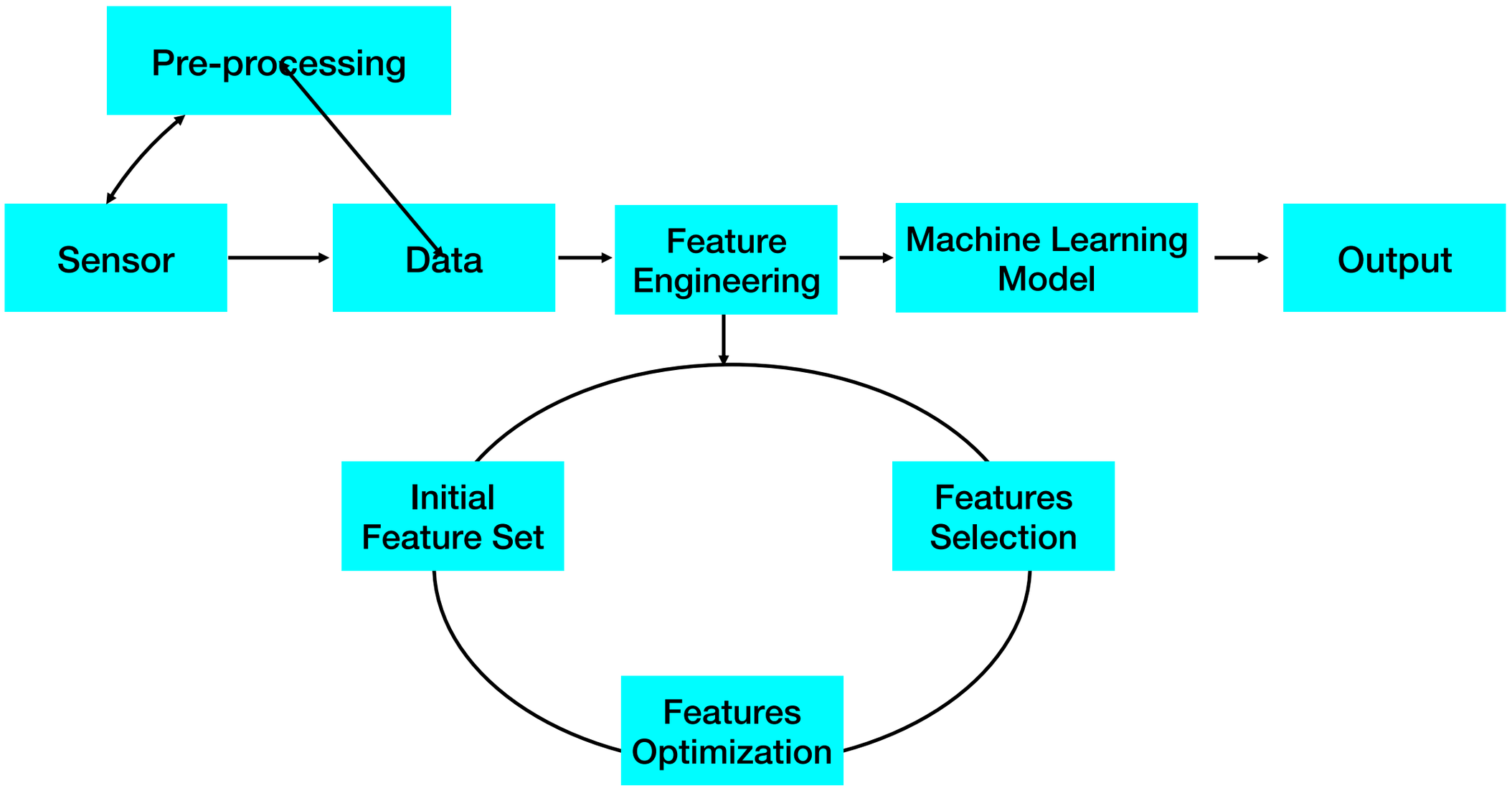
Max? Mean? …….

An Example from Research



Froehlich, Larson et al.


Sensor
Data
Feature Engineering
Machine Learning Model
Output
Initial Feature Set
Features Selection
Features Optimization


Pre-processing
Sensor
Data
Feature Engineering
Machine Learning Model
Output
Initial Feature Set
Features Selection
Features Optimization