AI - POWERED NUTRITION ANALYZER FOR FITNESS ENTHUSIASTS

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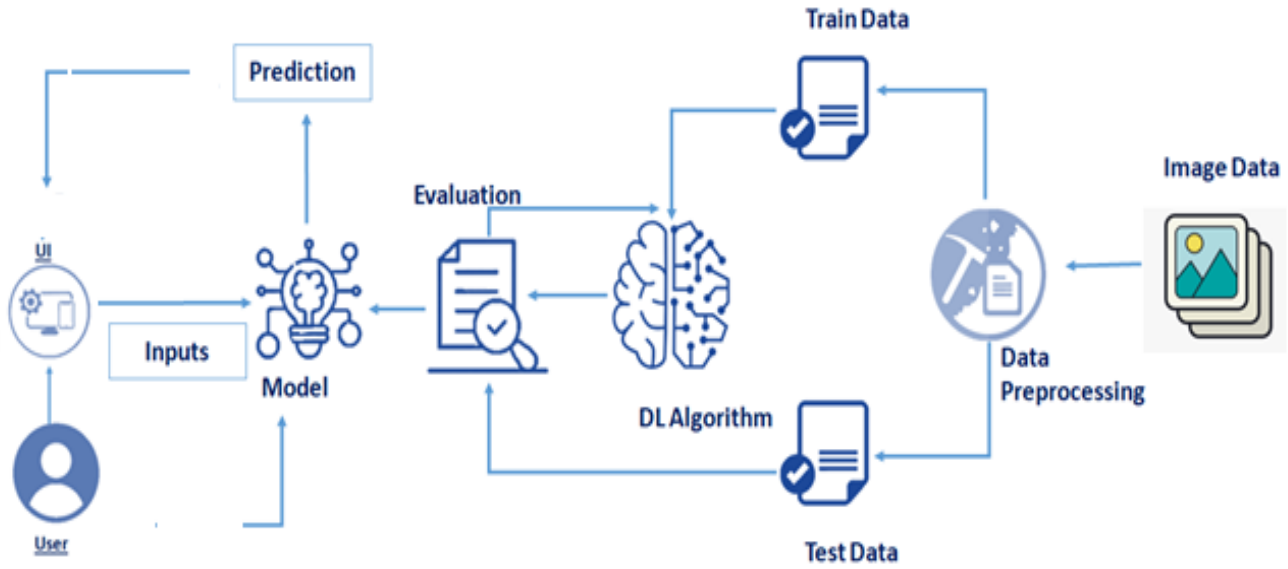
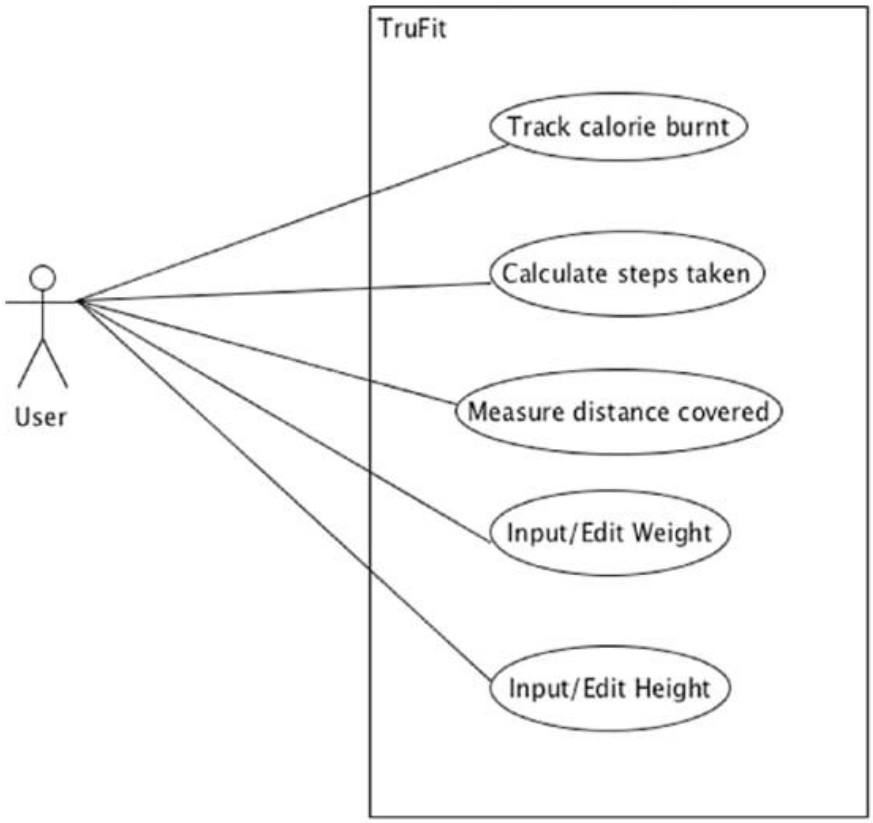
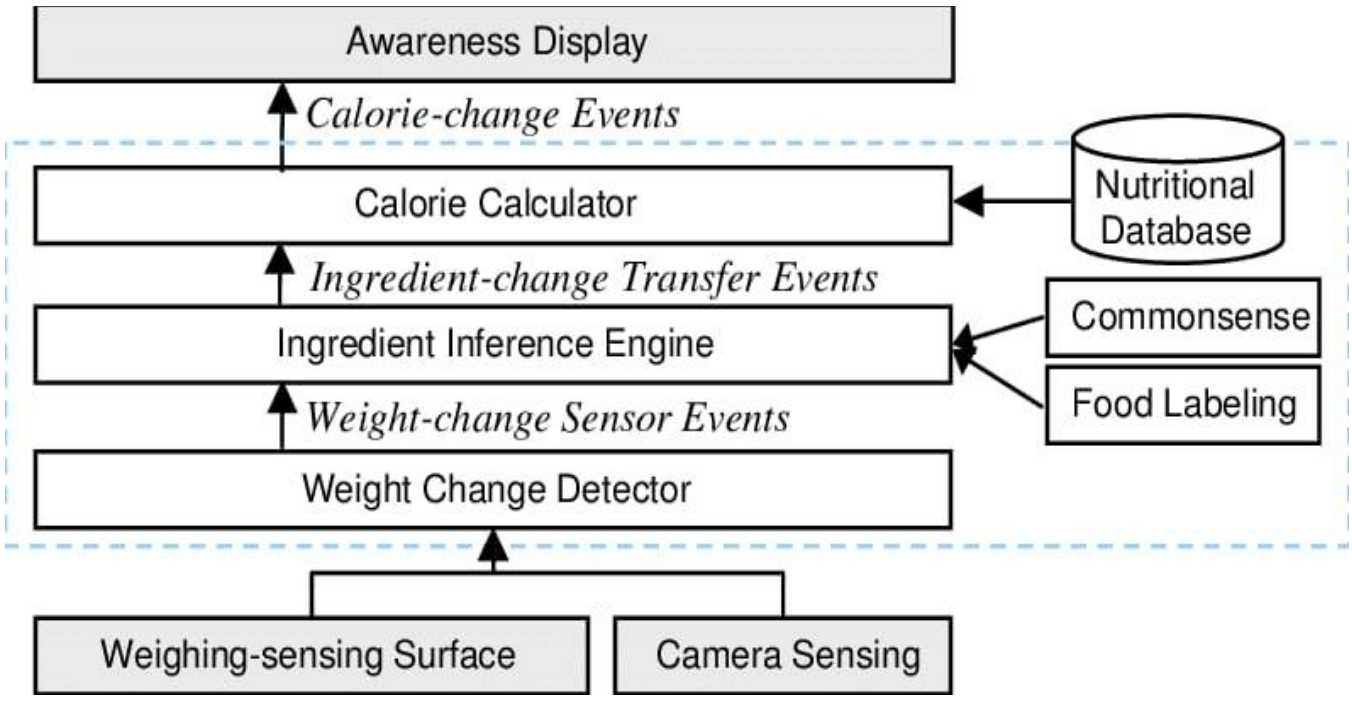
DEPARTMENT : **INFORMATION TECHNOLOGY**

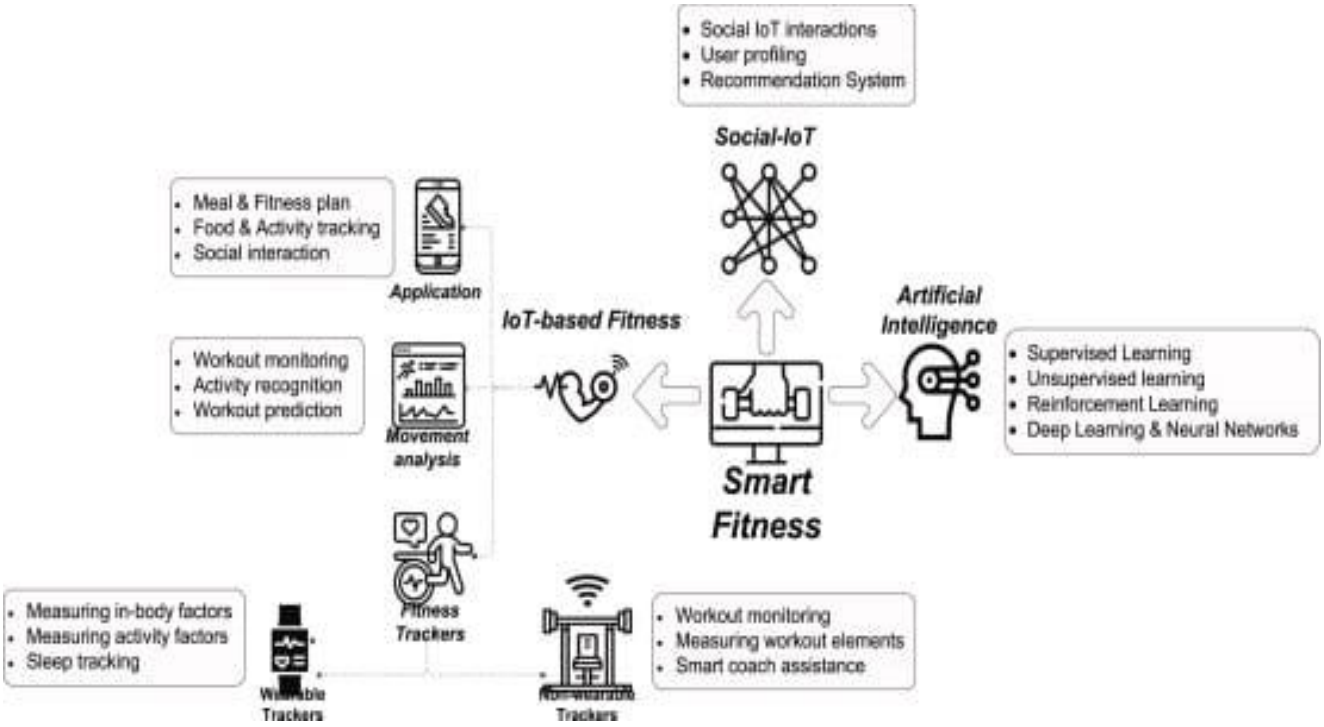
COLLEGE NAME : **SRI SAIRAM ENGINEERING COLLEGE**

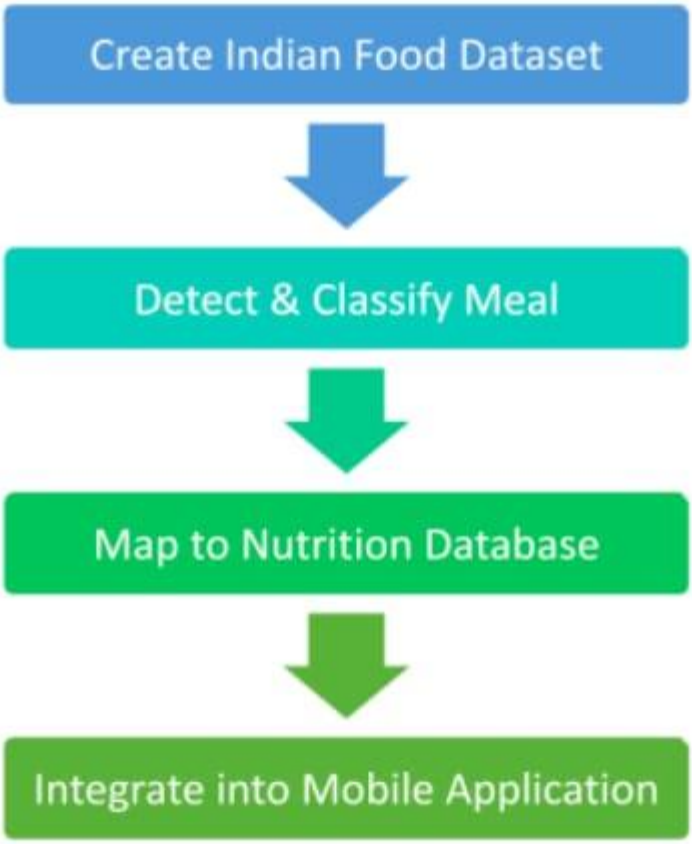
SOLUTION ARCHITECTURE




TruFit
Track calorie burnt
Calculate steps taken
Measure distance covered
Input/Edit Weight
Input/Edit Height
User


Awareness Display
Calorie-change Events
Calorie Calculator
Nutritional Database
Ingredient-change Transfer Events
Ingredient Inference Engine
Commonsense
Food Labeling
Weight-change Sensor Events
Weight Change Detector
Weighing-sensing Surface
Camera Sensing


Social IoT interactions
User profiling
Recommendation System
Social-IoT
Meal & Fitness plan
Food & Activity tracking
Social interaction
Application
IoT-based Fitness
Artificial Intelligence
Supervised Learning
Unsupervised learning
Reinforcement Learning
Deep Learning & Neural Networks
Workout monitoring
Activity recognition
Workout prediction
Movement analysis
Smart Fitness
Fitness Trackers
Measuring in-body factors
Measuring activity factors
Sleep tracking
Workout monitoring
Measuring workout elements
Smart coach assistance
Trackers


Create Indian Food Dataset
Detect & Classify Meal
Map to Nutrition Database
Integrate into Mobile Application