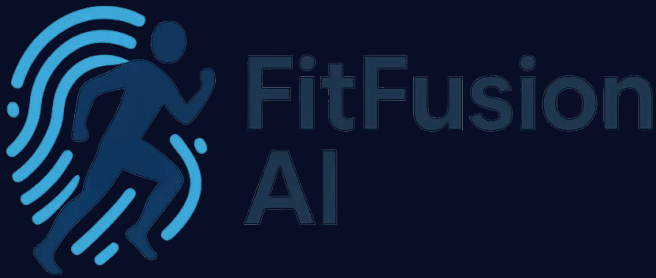


FitFusion AI: Personalized Fitness & Nutrition Assistant



AI-powered platform combining personalized workouts and
nutrition guidance in one seamless experience

Presented by

Madhusudan Bangalore Nagaraja, Technical Delivery Manager,

George Kavalaparambil, AI Engineer,

Jack Skjong-Nilsen, SRE,

Mike Adeniran, AI Engineer

Dallas AI Hackathon Success



Two Ambitious Projects, One Vision

We participated in the Summer Dallas AI Hackathon and developed two passionate projects: **Fitness Agent** for personalized workouts and **FoodFit AI** for intelligent nutrition tracking.

Now we're combining these innovations into [FitFusion AI](#) - the unified fitness and nutrition assistant.

Meet Our Team

Fitness Agent Team

- Jack Skjong-Nilsen
- George Kavalaparambil
- Vedanshi Sreeramoju

FoodFit AI Team

- Madhusudan Nagaraja
- Meenu
- Manas Muppala
- Mike Adeniran



Core Requirements & Features

01

Photo Analysis

Advanced computer vision to analyze body fat percentage and lean muscle mass, Food Image from smartphone photos

02

Personal Data Integration

Incorporates ethnicity, age, weight, height, and individual preferences for maximum personalization

03

Wearable Device Connectivity

Seamless integration with Apple Watch, Fitbit, and other fitness trackers for real-time data

04

Adaptive Planning System

Personalized, Dynamic exercise and diet plans that evolve based on progress tracking and user feedback



Massive Market Opportunity

\$46B

AI Fitness Market 2034

Growing from \$9.8B in 2024

\$35B

Home Fitness Apps 2030

Up from \$2.24B in 2023

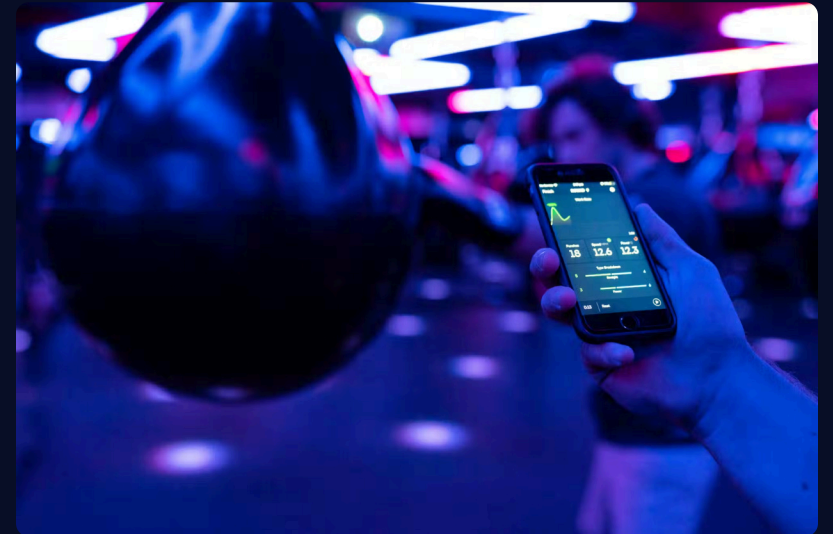
Post-pandemic acceleration has driven unprecedented demand for personalized health solutions, with consumers increasingly seeking AI-powered wellness guidance. Heightened health consciousness and preventative wellness focus among consumers.

Current Market Gaps

Existing Solutions Fall Short

Current competitors like Zing Coach, MyFitnessPal, iTrainer, BodBot, and Fitbod offer fragmented experiences.

- ⊗ **Critical Gap:** No single app integrates comprehensive workouts, personalized nutrition, wearable data, and advanced photo analysis into one unified platform.



FitFusion AI: Our Revolutionary Solution

Unified Platform

Combines Fitness Agent and FoodFit AI into one powerful application

AI-Powered Analysis

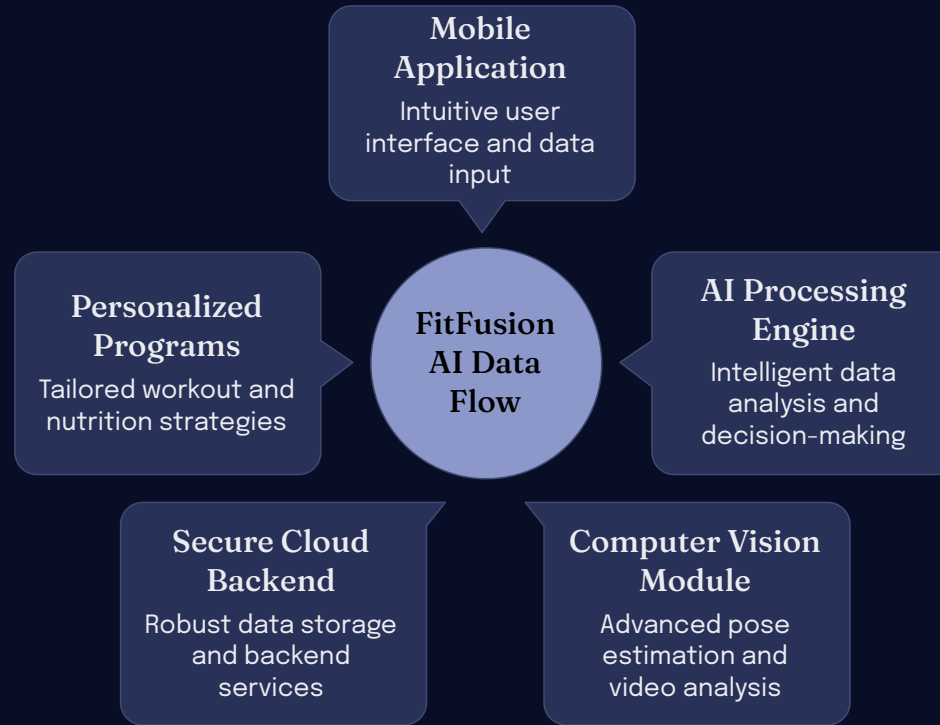
Photo-based body composition tracking and food image analysis with intelligent chatbot motivation

Complete Integration

Seamlessly connects workouts, nutrition, and wearable data for holistic health management



Unveiling the FitFusion AI System Architecture



Foundational System Components

- Intuitive Mobile App Interface
- Powerful AI Processing Engine
- Sophisticated Computer Vision Module
- Seamless Wearable Integration APIs
- Reliable Secure Cloud Backend

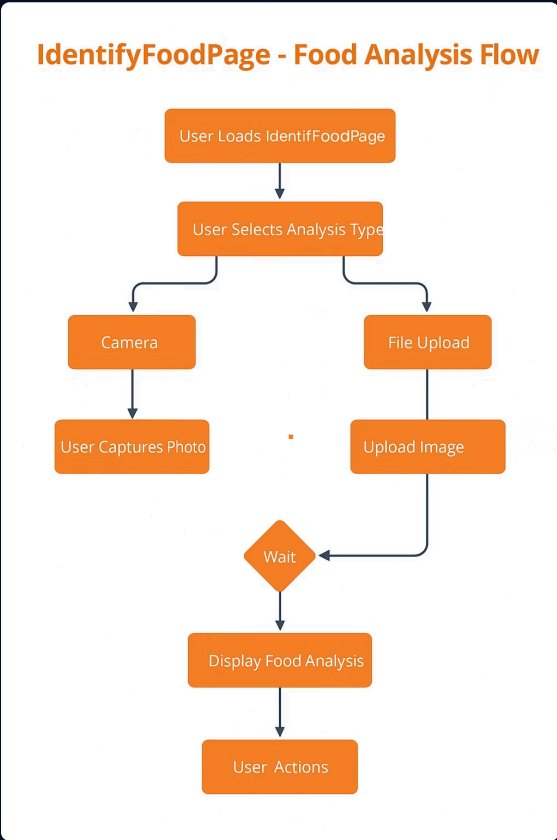
Advanced Specialized Modules

- Dynamic Workout Planning Algorithm
- Intelligent Nutrition Guidance System
- Precise Pose Estimation & Form Analysis
- Accurate Food Image Recognition

Key Features

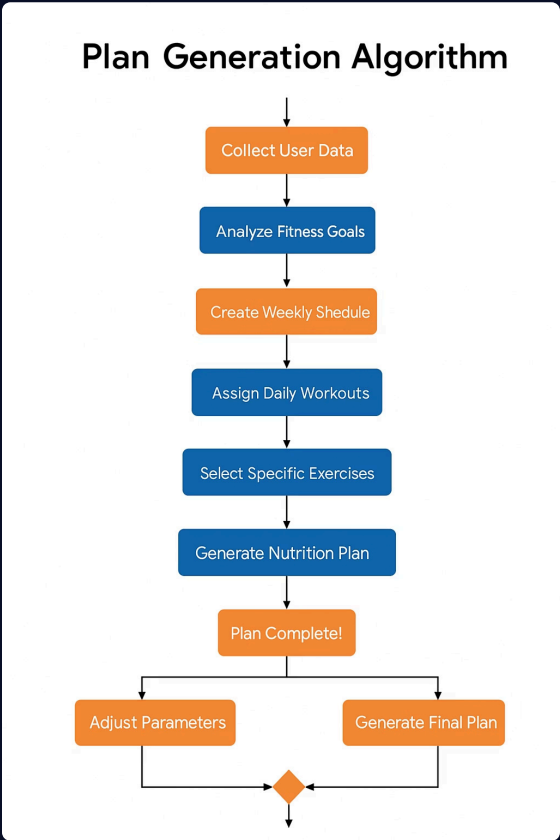
Intelligent Food Identification

Snap a photo: FitFusion AI identifies your food for instant caloric and macronutrient breakdowns.



Personalized Workout Plans

AI-generated workout routines tailored to your goals and equipment. Real-time adaptation based on your performance and progress.





Exciting Future Roadmap

1

Q2 2024: Real-Time Form Correction

Advanced computer vision for live workout form analysis and injury prevention

2

Q3 2024: Cultural Personalization

Culturally-aware diet recommendations respecting diverse culinary traditions

3

Q4 2024: Community Features

Social challenges, peer motivation, and community-driven fitness goals

**Thank you! Questions & Feedback
Welcome**