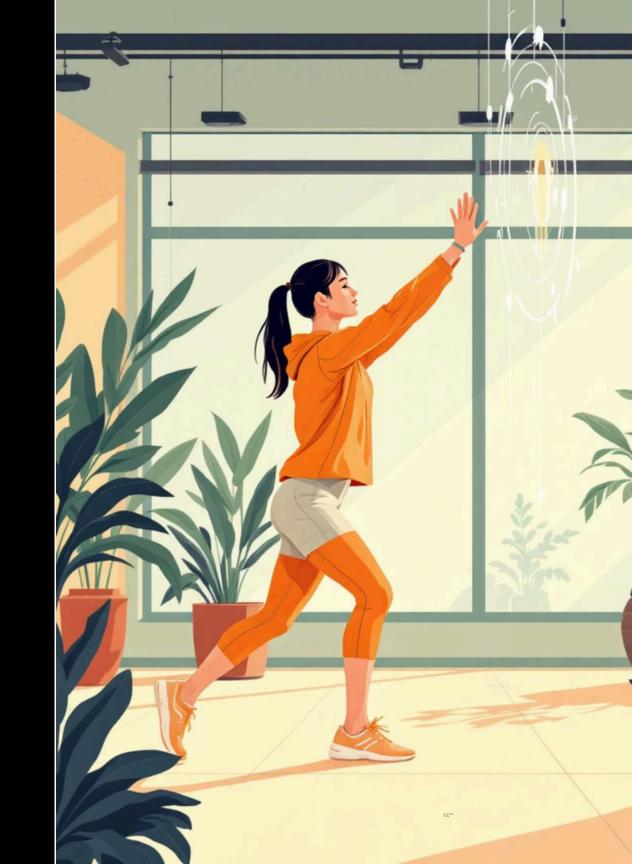
KinetiX: Al-Powered Fitness Application

HackOdisha5.0-2025

Team: DataDynamos

Transforming fitness with real-time AI posture detection and personalized coaching



The Problem



Poor Form

Millions sufferfrom posture issues due to desk jobs and unsupervised workouts No Feedback

Existing fitnessapps track activity but don't correct form in real-time

Inaccessibility

Personaltrainersare expensive and

Without proper guidance, users risk injury and see limited results from their fitness routines

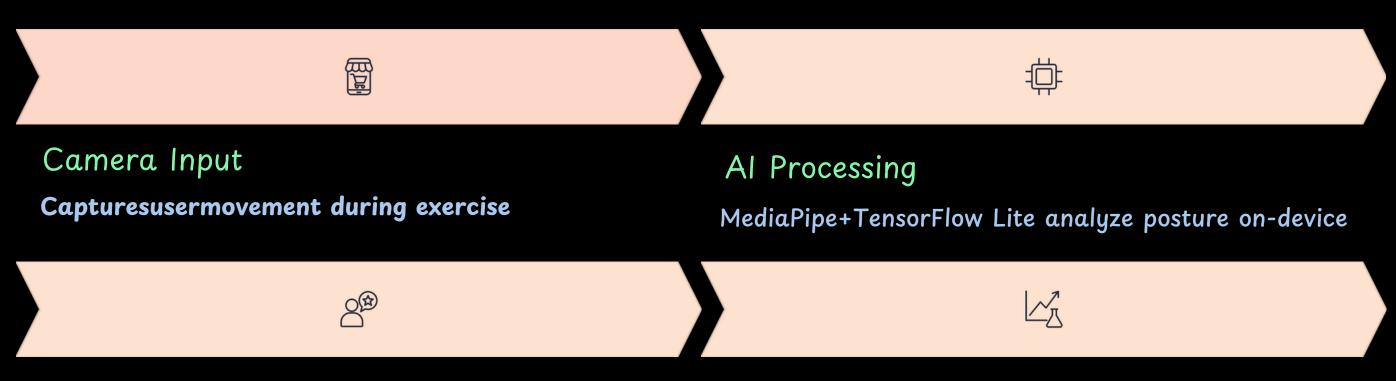
Our Solution: KinetiX

KinetiX is an Al-powered Android application that delivers:

- Real-time posture detection to ensure proper form
- Personalized workout tracking with progress
- analytics Instant feedback on exercise execution
- Smart reminders for workouts and hydration
- Modern, sleek UI optimized for fitness enthusiasts



How It Works



Real-time Feedback

Instant corrections and form guidance

Progress Tracking

Comprehensive workout analytics and insights

All processing happens on-device - no cloud dependency required

Key Features



Posture Al Real-time detection and correction of exercise form



Progress Dashboard Visual insights, BMI calculator, and improvement metrics



Customizable Tracking
Personalized workout plans with
smart reminders

Unique Innovation

On-Device ML + Workout Tracking

Rarecombination that processes
Al analysis locally while
maintaining a comprehensive
fitness ecosystem

Offline Functionality

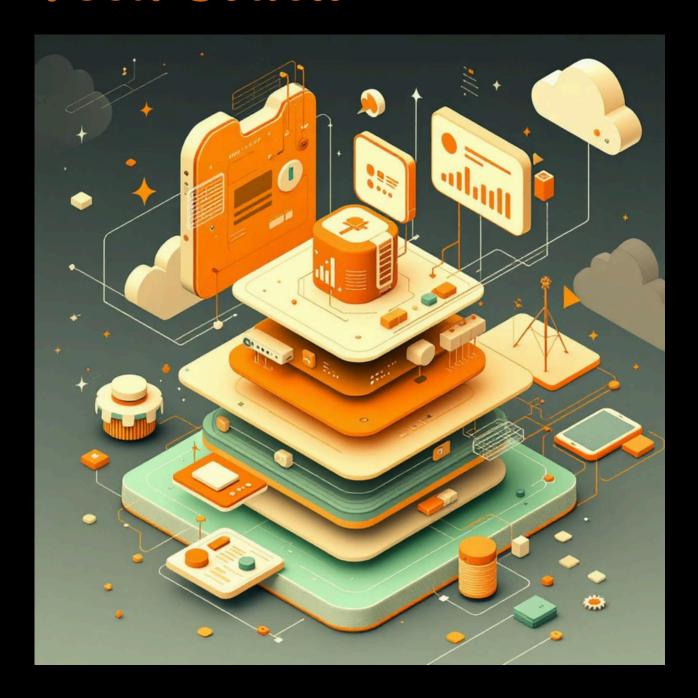
Workswithoutinternet connection, preserving privacy and ensuring accessibility in all environments

Integration Ready

Builtwith APIs designed

tonnect with wearables,
nutrition tracking platforms,
and other fitness ecosystems

Tech Stack





Frontend Kotlin + XML with MVVM architecture



Al Models
TensorFlow Lite + MediaPipe for on-device
processing

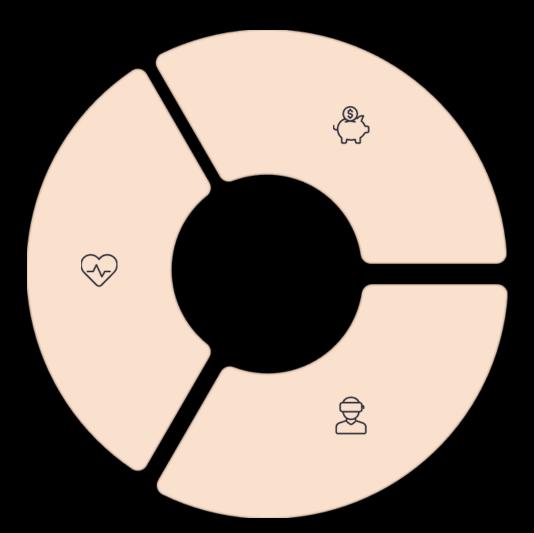


Local Storage Room Database for offline data persistence

Impact & Future Scope

Social Impact

Reduces posture-relatedhealth issues by democratizing access to professional-grade fitness guidance



Economic Value

Provides anaffordable alternative pærsonal trainers at a fraction of the cost

Future Innovation

ARworkout

intrigrantion and Atchowered

diet planning

Why KinetiX Stands Out

"We're not just tracking workouts
— we're making every rep count
with real-time Al guidance that
was previously only available
with expensive personal trainers."

- Combines accessibility with professional-grade coaching
- Solves a real problem for millions of fitness enthusiasts
- Addresses a \$96 billion fitness app market Leverages cutting-
- edge on-device ML for privacy and performance



Team DataDynamos

Buildingthefutureoffitness technology, one rep at a time



Debajyoti Bhakta MLEngineer Deeptesh Rout Android Developer Anuran Pradhan
UI/UX Designer

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