Key Improvements for Trainr's AI-Generated Workouts

1. Eliminate Repetition & Boost Variety

- Problem: Users receive the same exercises repeatedly.
- Solution:
 - o The AI will **rotate exercises** to ensure no exercise repeats within a week.
 - o Daily workouts will target different sub-body parts (e.g., biceps one day, triceps the next).
 - Use the new subBodyPart and workoutPhase fields in the video database to diversify movements (e.g., squats → goblet squats → split squats).

2. Progressive Overload for Continuous Growth

- Problem: Workouts lack clear progression (e.g., heavier weights, more reps).
- Solution:
 - The AI will analyze 2-3 weeks of historical data (sets, reps, weights, feedback) to incrementally increase intensity.
 - Example: If a user completes 3x8 squats at 100 lbs, the next session might suggest 3x10 reps or 105 lbs.

3. Dynamic User Feedback Integration

- **Problem:** Workouts don't adapt to user-reported difficulty.
- Solution:
 - o If a user rates a workout "too easy," the AI increases load/reps or selects a harder exercise
 - If rated "too hard," it reduces intensity or substitutes with a simpler exercise.

4. Structured Full-Body Workouts

- Problem: Inconsistent workout formats.
- Solution:
 - Daily focus: Full-body sessions targeting arms, legs, chest, back, shoulders, and abs.
 - Weekly schedule:
 - Mon, Tue, Thu, Fri, Sat: Workouts (with rest days on Wed/Sun or substituted if skipped).
 - Rest days include light walks and stretches.

5. Duration & Expertise-Based Customization

- **Problem:** Workouts don't align with user time constraints or skill levels.
- Solution:
 - O Duration:
 - 30/45/60+ minute workouts with tailored warmups, sets, and stretches.
 - Expertise:
 - Exercises selected based on user level (beginner/intermediate/advanced) from the video database.

6. Equipment & Safety Compliance

- Problem: Workouts suggest unavailable equipment.
- Solution:
 - o The AI will strictly use equipment listed during onboarding (e.g., bands, barbells).
 - o Bodyweight exercises are prioritized if no equipment is available.

Success Metrics to Track

- 1. Zero repeated exercises in weekly workouts.
- 2. User feedback directly impacts the next session's design.
- 3. Clear progression in weights, reps, or difficulty over 2-3 weeks.

Client Benefits

- Higher engagement: Varied, personalized workouts keep users motivated.
- Better results: Progressive overload ensures continuous fitness improvements.
- User trust: Feedback-driven adjustments show the app "listens" to their needs.