

Case study on



Golf Coach



Project Overview



The Golf Coach mobile application is designed to help beginner golfers improve their putting skills using AI-powered camera detection. By analyzing the ball, putter, stance, and hole in real time through a smartphone camera, the app provides instant guidance without requiring expensive coaching sessions or hardware. Beginners often struggle with alignment, rhythm, and distance control, which significantly affect accuracy. This solution offers a convenient way to practice anytime and anywhere. With its AI-based motion analysis and instant feedback system, the Golf Coach app helps users correct mistakes, build confidence, and improve performance consistently through accessible and smart self-training.



Project Feature View



A real-time AI-powered putting assistant that detects objects, analyzes stance and stroke motion, and provides instant correction tips through an intuitive interface designed for beginners practicing with only a smartphone.

Client Details



Client: Confidential

Location: Not Disclosed

Industry: Sports Tech / Golf Training

Technology Stack: AI-Based Object Detection, Pose Tracking, Motion Analysis Engine, Mobile App Framework

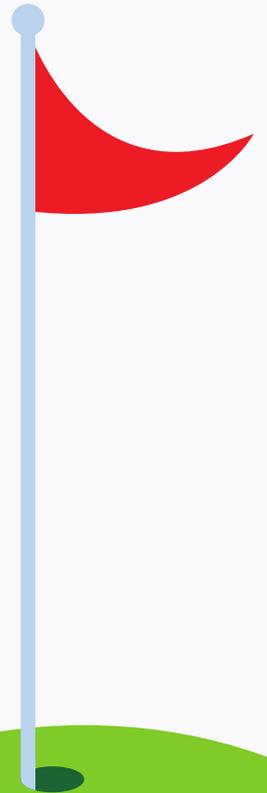


Challenges

- * Beginners struggle with alignment, stance, tempo, and distance control.
- * Traditional coaching is costly and not always accessible.
- * Need for a simple, mobile-based practice tool with real-time feedback.

Solution Approach

- * Developed an AI-powered engine using real-time object and pose detection.
- * Implemented stroke-motion analysis with automatic comparison to past attempts.
- * Delivered instant correction tips to guide alignment, distance, and tempo.



Key Features



- * Object and pose recognition for ball, putter, hole, and stance.
- * Metrics tracking including stroke distance, tempo, and rhythm.
- * Instant performance reports with suggestions and visual comparisons.

Results & Impact



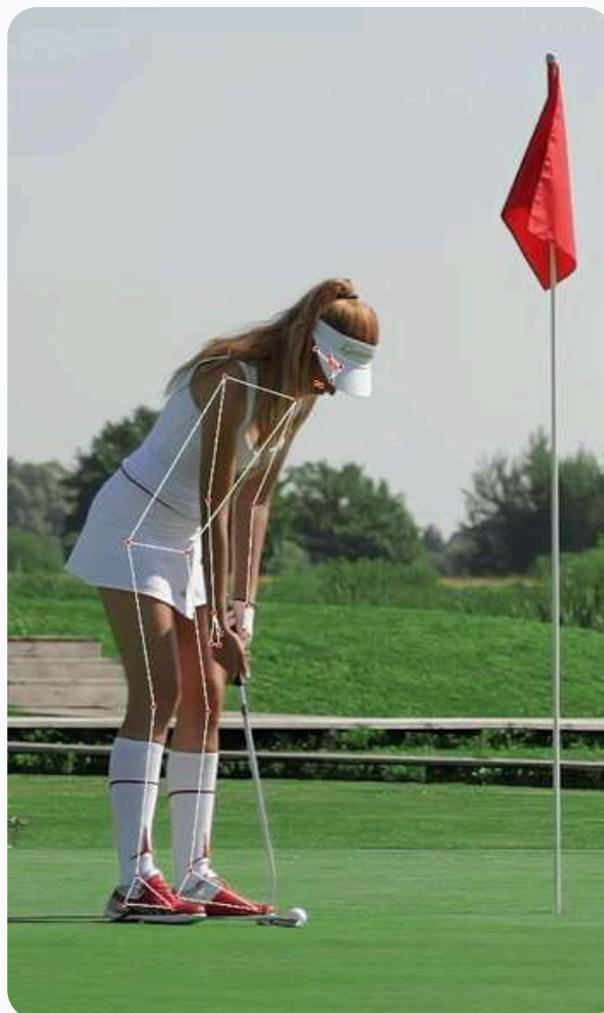
- * Made professional-style coaching accessible and affordable for beginners.
- * Enabled consistent self-practice with automated analysis on any device.
- * Created a scalable foundation for future AI-powered golf training features.

Conclusion



The Golf Coach app turns a smartphone into a personal putting trainer, offering real-time insights, simple guidance, and progress tracking, making golf practice more accessible, affordable, and effective for beginners

Visual Overview





THANK YOU!



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