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(57) Abstract :

The invention discloses an AI-powered system for smart sports performance analysis that integrates wearable sensors (101), video capture units (102), AI analytics engine (103), cloud storage (104), real-time feedback module (105), predictive engine (106), and interactive dashboard (107). The system provides real-time monitoring, biomechanical analysis, personalized feedback, and predictive injury risk assessment. It unifies data streams to deliver comprehensive, accurate, and personalized performance insights, thereby enhancing athlete training efficiency, safety, and long-term performance optimization.

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