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(57) Abstract :

The present invention discloses a fitness tracking system (100) that addresses privacy and security concerns in the fitness monitoring industry. The system (100) includes a processor (102) configured to receive fitness data from users. The received fitness data is encrypted using homomorphic encryption, enabling computation on the encrypted data without decrypting it. The system (100) performs data analysis on the encrypted fitness data, generating personalized fitness recommendations and progress without revealing the users' personal information. The personalized advice and progress are displayed on the users' computing devices. The system allows data reception through various methods, including manual entry, integration with fitness tracking devices, and synchronization with fitness applications. The fitness tracking system offers enhanced privacy, security, and personalization in fitness monitoring, empowering users to track their fitness while safeguarding their personal information.

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