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(57) Abstract :

The present invention discloses an AI-based model (100) for predicting agricultural crop yields through the integration of IoT sensors (110), historical datasets (120), a cloud analytics platform (130), and a prediction engine (150). Real-time sensor inputs are combined with historical records to generate accurate yield forecasts. A mobile interface (140) delivers user-friendly recommendations, while a feedback module (160) refines predictions over time. The invention ensures scalability, adaptability, and sustainability across diverse farming regions, optimizing productivity and resource efficiency.

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