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Predictive Analytics for Preventive Medicine: Analyzing How Predictive Analytics is Utilized for Forecasting Patient Health Trends and Preventive Disease

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The abstract is about the possible use of predictive analytics for the prevention of the disease, thereby fortifying patient health trends and preparing for disease. When employing informative data analysis technologies, predictive analysis helps customers find potential health hazards and apply preventive measures that add value to all of us. This work discusses the part that predictive analytics plays in healthcare, emphasizing the fact that it is likely to change primary care by detecting people at risk of illnesses early and by developing targeted interventions. An in-depth review of published articles belonging to the topic at hand gives a clear picture of the role involved in implementing predictive models in the preventive medicine field, they include data collection, training of neural networks, validation, and implementation. The application of predictive analytics in healthcare is analyzed; how it impacts healthcare quality, cost-effectiveness, and early disease diagnosis is demonstrated. The paper brings the idea to light that predictive analytics aid in the transformation of preventive medicine. Therefore, preventive medicine practice in healthcare can immensely benefit from predictive analytics techniques.