PrediX: Diabetes Risk Report

Patient: kjf | Age: 19 | Date: May 09, 2025

Estimated time to progression to Type 2 Diabetes: 1.0 years

Top Risk Factors & Recommendations

Genetic Risk Score (Input: 9) - Impact: -0.11

High genetic risk. Focus on strict lifestyle management to offset risk.

Stress Level (Input: 10) - Impact: -0.10

High stress. Engage in mindfulness, therapy, or stress reduction programs.

Cholesterol Level (Input: 121.0) - Impact: 0.08

No specific recommendation available.

Bmi (Input: 26.2) - Impact: 0.04

Overweight. Begin a structured exercise and dietary program.

Fast Food Intake (Input: 8) - Impact: -0.04

High fast food intake. Reduce frequency to less than once per week.

Sleep Hours (Input: 6.0) - Impact: -0.03

No specific recommendation available.

Screen Time (Input: 12) - Impact: -0.02

Excessive screen time. Limit to <4 hours/day and increase physical activity.

Hba1C (Input: 6.0) - Impact: 0.01

Prediabetes range HbA1c. Start lifestyle modifications urgently.

Fasting Blood Sugar (Input: 126.0) - Impact: -0.01

Diabetes-range fasting glucose. Confirm with repeat testing and initiate care.

Family Income (Input: 100003) - Impact: -0.00

Consider socioeconomic factors in healthcare accessibility.

Age (Input: 19) - Impact: 0.00

No specific recommendation available.

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SHAP Summary Plot

This plot shows the impact of each feature on the predicted diabetes risk. Each point represents a patient's input for a feature-colored by value: blue = low, red = high. Features pushing the prediction higher appear on the right, and those lowering it on the left.

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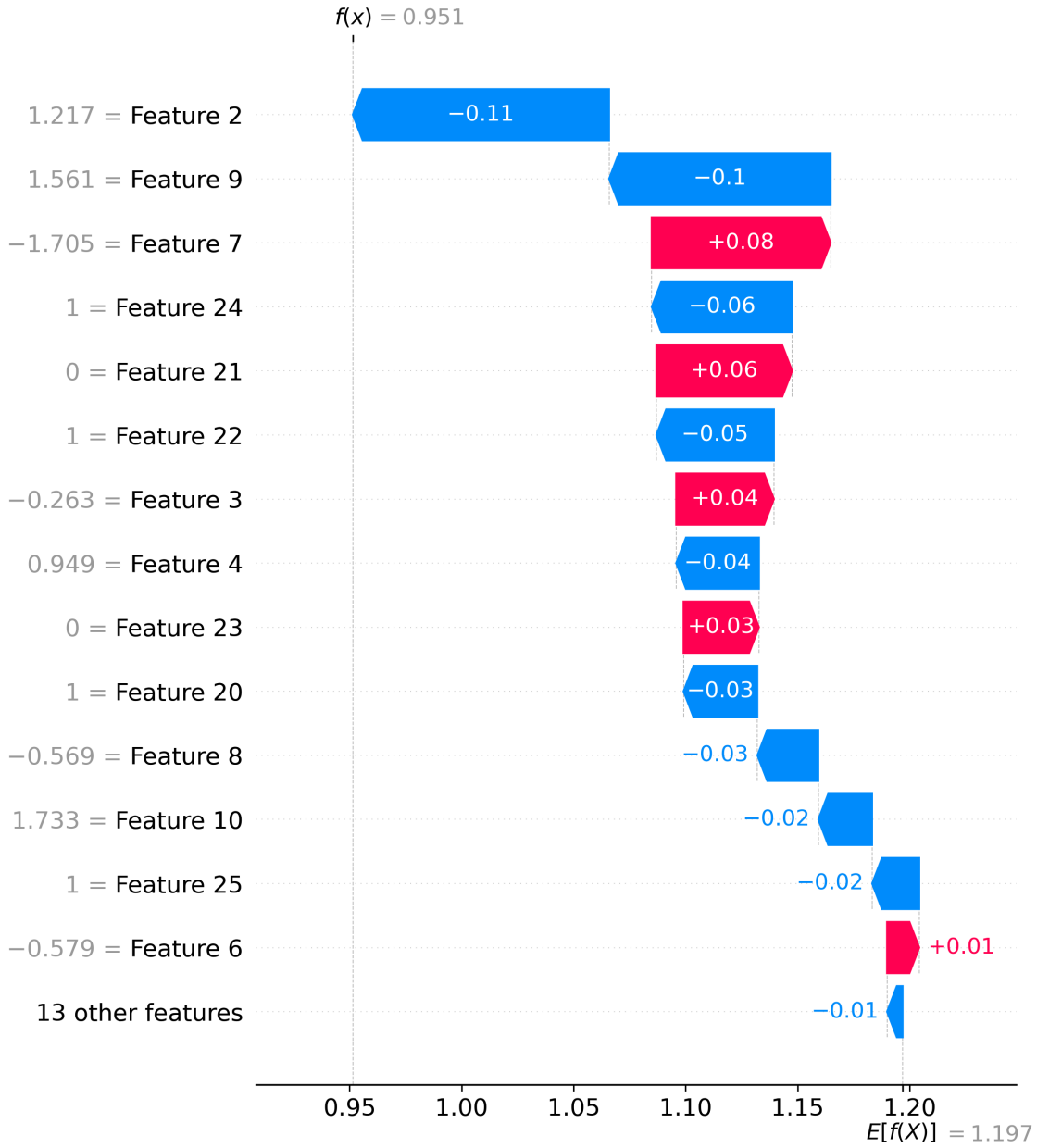
SHAP Waterfall Plot



This chart explains how your individual features contributed to the final risk prediction. Red bars increase risk, blue bars reduce it. It starts at the model's baseline and ends at your final prediction. Each label shows a feature from your inputs.

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Risk Interpretation Note

Note: Lower progression years indicate higher diabetes risk.

