PrediX: Diabetes Risk Report

Patient: Nikhitha Reddy   Age: 20   Date: Apr 26, 2023

Estimated time to progression to Type 2 Diabetes: 1.0 years

Personalized Risk Factors & Recommendations

3. Genetic Risk Score (Input: 10) - Impact: -0.35

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

7. Hba1C (Input: 4.0) - Impact: 0.28

No specific recommendation available.

8. Cholesterol Level (Input: 120.0) - Impact: 0.19

No specific recommendation available.

10. Stress Level (Input: 8) - Impact: -0.17

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

5. Fast Food Intake (Input: 8) - Impact: -0.10

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

6. Fasting Blood Sugar (Input: 122.98) - Impact: -0.07

Impaired fasting glucose. Initiate lifestyle interventions.

9. Sleep Hours (Input: 6.0) - Impact: -0.06

No specific recommendation available.

11. Screen Time (Input: 10) - Impact: -0.05

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

1. Age (Input: 20) - Impact: -0.01

No specific recommendation available.

2. Family Income (Input: 170000) - Impact: 0.01

Consider socioeconomic factors in healthcare accessibility.

4. Bmi (Input: 29.99) - Impact: 0.01

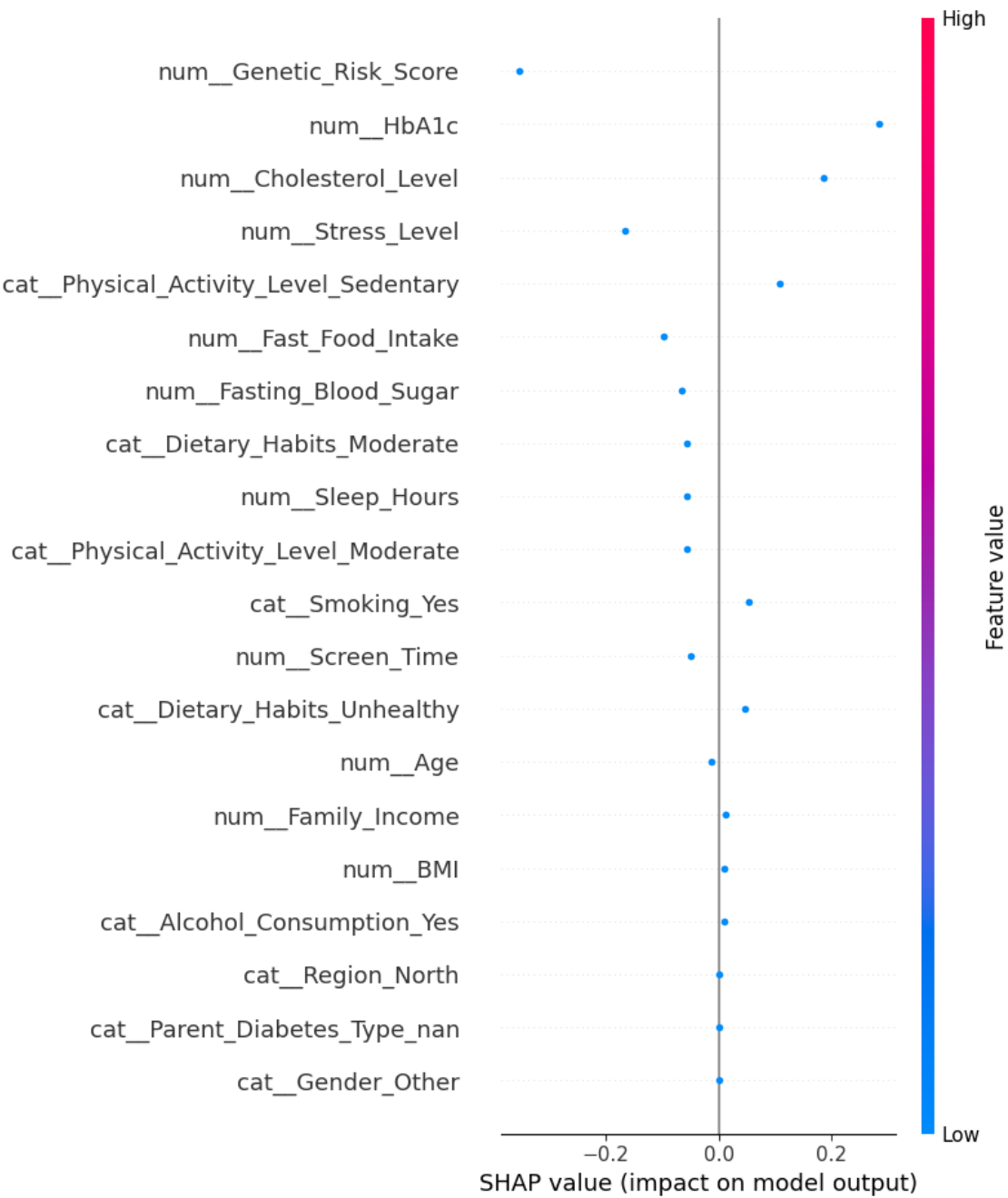*Overweight. Begin a structured exercise and dietary program.*

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SHAP Summary Plot

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SHAP Waterfall Plot

$f(x) = 0.998$

Feature	Contribution
Feature 2	−0.35
Feature 6	+0.28
Feature 7	+0.19
Feature 9	−0.17
Feature 21	+0.11
Feature 4	−0.1
Feature 5	−0.07
Feature 22	−0.06
Feature 8	−0.06
other features	+0.02

$E[f(X)] = 1.197$