# PrediX: Diabetes Risk Report

Patient: fddf | Age: 25 | Date: May 10, 2025

Estimated time to progression to Type 2 Diabetes: 1.1 years

## Top Risk Factors & Recommendations

Fasting Blood Sugar (Input: 70.05000000000003) - Impact: 0.40

*No specific recommendation available.*

Hba1C (Input: 4.2099999999999955) - Impact: 0.39

*No specific recommendation available.*

Cholesterol Level (Input: 121.01000000000052) - Impact: 0.23

*No specific recommendation available.*

Stress Level (Input: 8) - Impact: -0.21

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

Bmi (Input: 40.0) - Impact: -0.17

*Obesity. Medical management or bariatric consultation recommended.*

Genetic Risk Score (Input: 3) - Impact: 0.10

*No specific recommendation available.*

Fast Food Intake (Input: 9) - Impact: -0.10

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

Sleep Hours (Input: 4.0) - Impact: -0.08

*Insufficient sleep. Aim for 7-9 hours to support metabolic health.*

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

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

Age (Input: 25) - Impact: 0.01

*No specific recommendation available.*

Family Income (Input: 100000) - Impact: -0.00

*Consider socioeconomic factors in healthcare accessibility.*

 

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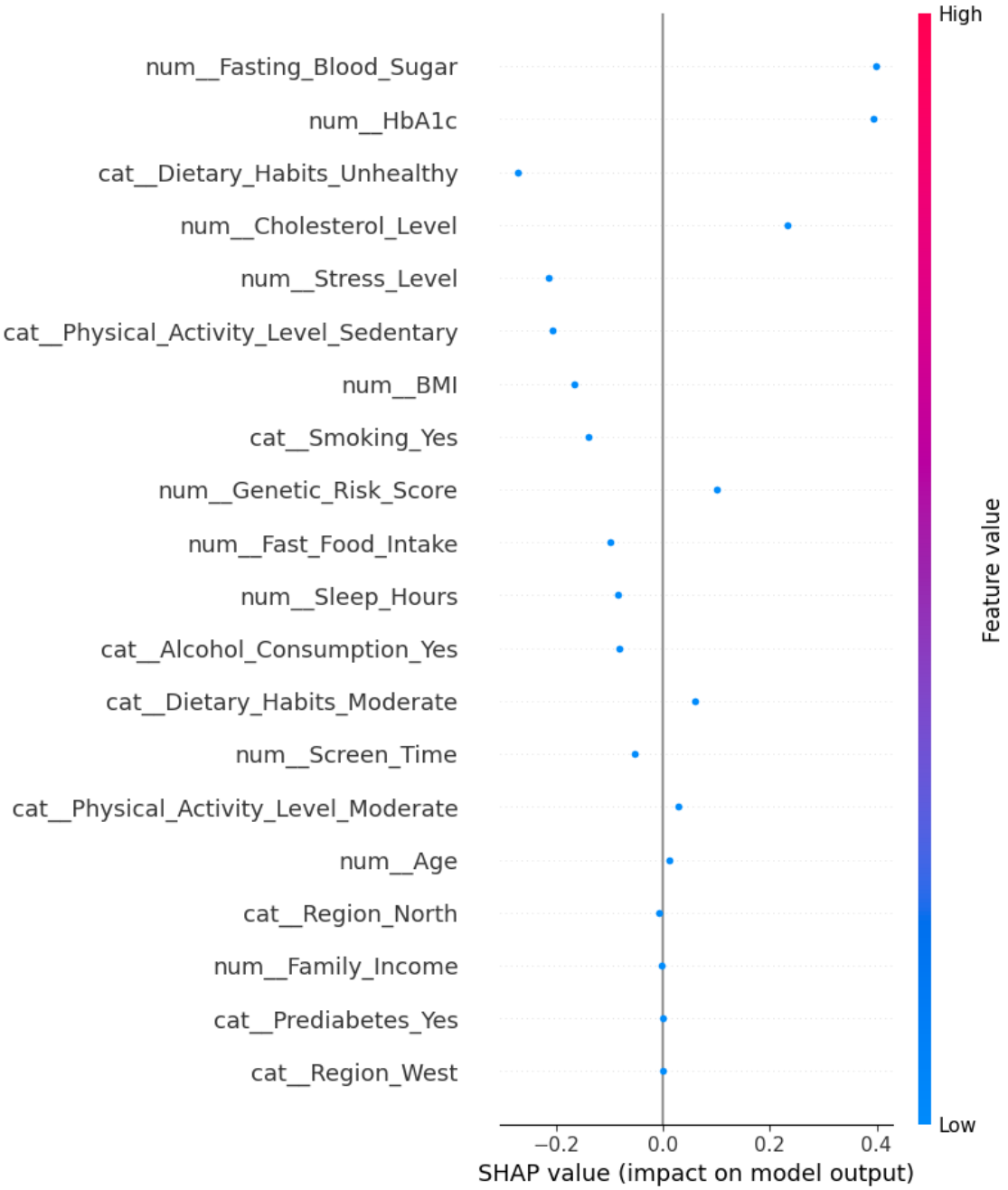
## SHAP Summary Plot




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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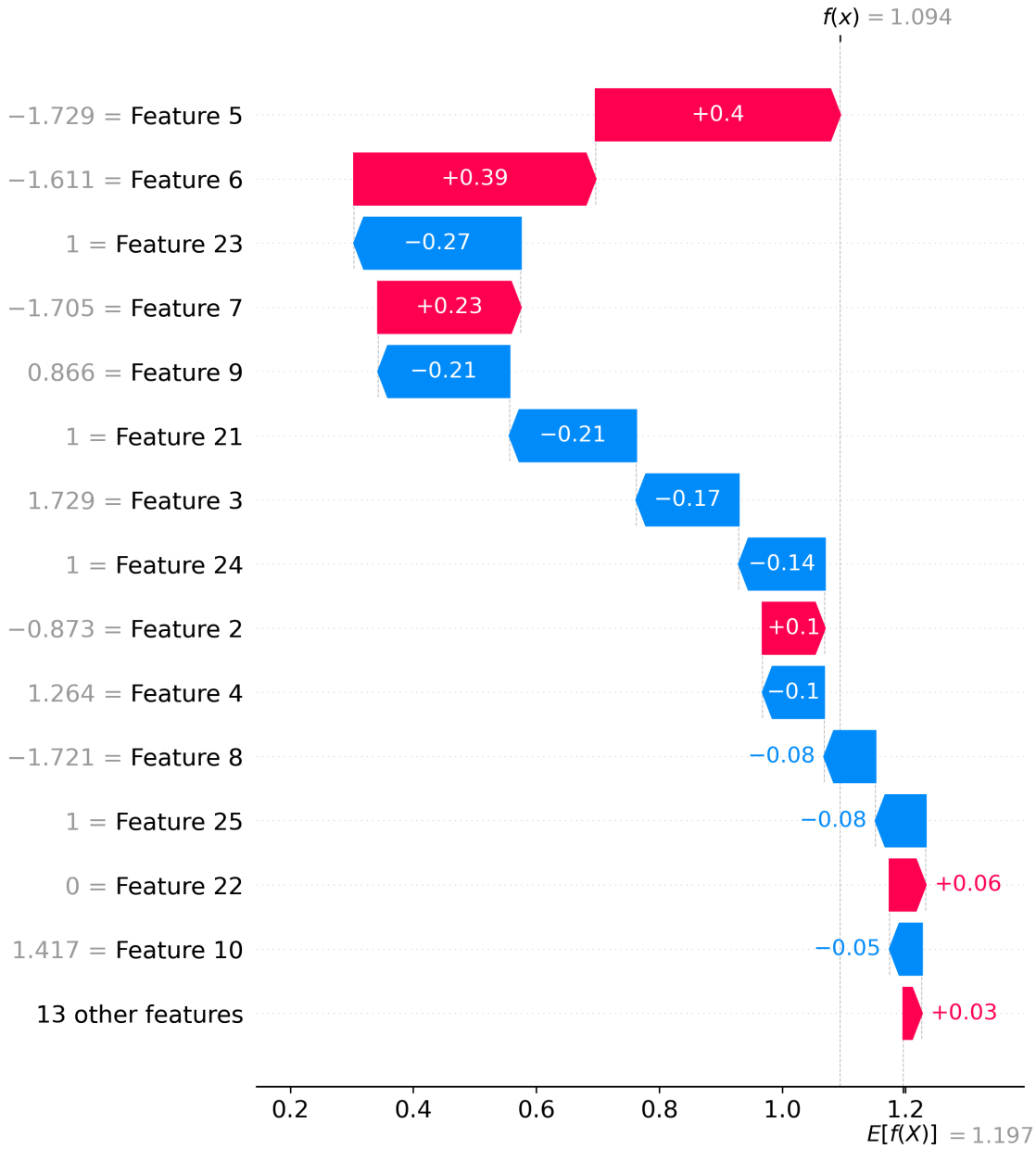
## SHAP Waterfall Plot




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.

 