

Diabetes Risk Report

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1. Predicted Risk

- Predicted class: Diabetes

2. Class Probabilities

- No Diabetes: 0.918
- Prediabetes: 38.880
- Diabetes: 60.202

3. Patient Inputs

- Physical activity in past 30 days: 1.0
- Alcohol risk level: 2.0
- Average drinks per day (on drinking days): 5
- Number of heavy drinking days (past 30 days): 10
- Current smoking frequency: 2.0
- Ever smoked ≥100 cigarettes: 1.0
- Mentally unhealthy days (past 30 days): 10
- Physically unhealthy days (past 30 days): 15
- Total unhealthy days (physical + mental): 25
- Body Mass Index (BMI): 27.44
- BMI category: 3.0
- Weight (lbs): 250
- Biological sex: 1.0
- Age group: 57
- Race / ethnicity: 5.0
- Education level: 6.0
- Household income: 10.0
- State / territory: New Hampshire

4. Top Factors Influencing This Prediction

(Based on SHAP values for the Diabetes class)

- Smoking status category = 1.0: SHAP value = -0.688
- Smoking status category = 2.0: SHAP value = -0.488
- Heavy drinking flag = 25.0: SHAP value = 0.338
- Body mass index: SHAP value = 0.322
- Any alcohol past 30days = 2.0: SHAP value = 0.269
- Age code = 25.0: SHAP value = 0.249
- Race ethnicity group = 3.0: SHAP value = 0.242
- Age code = 36.0: SHAP value = 0.241
- At risk smoking.1 = 2.0: SHAP value = 0.222
- Heavy drinking flag = 60.0: SHAP value = 0.218

Note: This report is generated by a machine learning model trained on BRFSS 2024 data and is for educational/demo purposes only. It is not a medical diagnosis.