**Credit Risk Analysis Report**

The purpose of this credit risk analysis is to assess the performance of a machine learning model in predicting creditworthiness for loan applicants. The model aims to differentiate between healthy loans (class 0) and high-risk loans (class 1). The analysis provides insights into the accuracy, precision, and recall scores of the model to evaluate its effectiveness in making reliable predictions.

**Model Performance Metrics**

**Model 1:**

Accuracy: 0.99

Precision:

Class 0: 1.00

Class 1: 0.84

Recall:

Class 0: 0.99

Class 1: 0.90

F1-Score:

Class 0: 1.00

Class 1: 0.87

**Model 2:**

Accuracy: 0.95

Precision:

Class 0: 0.92

Class 1: 0.99

Recall:

Class 0: 1.00

Class 1: 0.91

F1-Score:

Class 0: 0.95

Class 1: 0.95

Model 1:

Model 1 is generally accurate, with a minor trade-off between precision and recall for high-risk loans. Recommended for consideration, with a suggestion for further investigation into the consequences of false positives.

Model 2:

Demonstrates balanced and reliable performance in terms of accuracy, precision, and recall for both healthy and high-risk loans. Recommended for use by the company in credit risk analysis.

In conclusion, while both models exhibit strong performance, Model 2 is recommended for use by the company due to its balanced precision and recall scores for both healthy and high-risk loans. It provides a reliable and well-rounded solution for credit risk assessment.