High-Impact Factors (70% of total score):

Debt: Debt Score=Wdebt×Normalize_Debt(total_amount_in_debt)Debt Score=Wdebt ×Normalize_Debt(total_amount_in_debt)

Monthly Revenue: Revenue

Score=Wrevenue×Normalize_Revenue(average_monthly_revenue)Revenue Score=Wrevenue ×Normalize_Revenue(average_monthly_revenue)

Past Due Amount: Past Due

Score=Wpast_due×Score_Past_Due_Amount(max_past_due_amount)Past Due Score=Wpast_due
×Score_Past_Due_Amount(max_past_due_amount)

Overdue Installments: Overdue Installments

Score=Woverdue_installments×Normalize_Overdue_Installments(num_overdue_installments)Over due Installments Score=Woverdue_installments

×Normalize Overdue Installments(num overdue installments)

Open Contracts: Open Contracts

Score=Wopen_contracts×Normalize_Open_Contracts(total_open_contracts)Open Contracts
Score=Wopen_contracts×Normalize_Open_Contracts(total_open_contracts)

Past Due Days: Past Due Days

Score=Wpast_due_days Calculate_Past_Due_Days_Score(max_past_due_days)Past Due Days Score=Wpast_due_days Calculate_Past_Due_Days_Score(max_past_due_days)

Debt-to-Income Ratio: Debt-to-Income Ratio

Score=Wdebt_to_income×Normalize_Debt_To_Income_Ratio(Debt-to-Income Ratio)Debt-to-Income Ratio Score=Wdebt_to_income×Normalize_Debt_To_Income_Ratio(Debt-to-Income Ratio)

Where:

Wdebt=0.30Wdebt=0.30

Wrevenue=0.30Wrevenue=0.30

Wpast_due=0.10Wpast_due=0.10

Woverdue_installments=0.10Woverdue_installments=0.10

Wopen_contracts=0.05Wopen_contracts=0.05

Wpast_due_days=0.05Wpast_due_days=0.05

Wdebt_to_income=0.10Wdebt_to_income=0.10

Middle-Impact Factors (20% of total score):

Business Duration: Business Duration

Score=Wbusiness_duration×Normalize_Business_Duration(months_in_business)Business Duration Score=Wbusiness_duration×Normalize_Business_Duration(months_in_business)

Payment Methods: Payment Methods

Score=Wpayment_methods Normalize_Payment_Methods (payment_methods) Payment Methods

Score=Wpayment_methods \times Normalize_Payment_Methods(payment_methods)

Age: Age Score=Wage×Normalize_Age(age)Age Score=Wage×Normalize_Age(age)

Dependents: Dependents

 $Score=W dependants \times Normalize_Dependants (num_dependants) Dependents \ Score=W dependants \times Normalize_Dependants \times Normalize_Dependant$

×Normalize_Dependants(num_dependants)

Where:

Wbusiness_duration=0.30Wbusiness_duration=0.30

Wpayment_methods=0.25Wpayment_methods=0.25

Wage=0.25Wage=0.25

Wdependants=0.20Wdependants=0.20

Low-Impact Factors (10% of total score):

Credit Inquiries: Credit Inquiries

Score=Wcredit_inquiries Normalize_Credit_Inquiries (num_credit_inquiries) Credit Inquiries

Score=Wcredit_inquiries × Normalize_Credit_Inquiries (num_credit_inquiries)

Regional GDP: Regional GDP

Score=Wregional_gdp×Normalize_RGP(region_gdp,national_average_gdp)Regional GDP

Score=Wregional_gdp×Normalize_RGP(region_gdp,national_average_gdp)

Housing Status: Housing Status

Score=Whousing_status Normalize_Housing_Status(housing_status)Housing Status

Score=Whousing_status×Normalize_Housing_Status(housing_status)

Where:

Wcredit_inquiries=0.40Wcredit_inquiries=0.40

Wregional_gdp=0.30Wregional_gdp=0.30

Whousing_status=0.30Whousing_status=0.30

Overall Credit Score Calculation:

 $\label{eq:core-core} Credit\ Score=(0.70\times High-Impact\ Score)+(0.20\times Middle-Impact\ Score)+(0.10\times Low-Impact\ Score)+(0.70\times High-Impact\ Score)+(0.20\times Middle-Impact\ Score)+(0.10\times Low-Impact\ Score)$

Score)

2. Loan Amount Calculation

If Monthly Revenue ≥500,000 TSH≥500,000 TSH: Approved Loan=500,000 TSHApproved

Loan=500,000 TSH

If Monthly Revenue <500,000 TSH<500,000 TSH: Approved

Loan=average monthly revenue Approved Loan=average monthly revenue