

Summary of the module

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- 6 Stages of Machine Learning Lifecycle
 - ❑ Problem Definition
 - ❑ Hypothesis Generation
 - ❑ Data Collection
 - ❑ Data Exploration and Pre-processing
 - ❑ Model Building
 - ❑ Model Deployment and Monitoring

Summary of the module

- 6 Stages of Machine Learning Lifecycle
- Understanding the problem statement: Loan Eligibility

Check your Loan Eligibility

Gender

Male

Marital Status

Unmarried

Monthly Income in Rupees

50000.00 - +

Loan Amount in Rupees

500000.00 - +

Check

Your loan is Approved

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- 6 Stages of Machine Learning Lifecycle
- Understanding the problem statement: Loan Eligibility
- Steps to build the Loan Eligibility Application
 1. Building the Frontend of the application
 2. Loading and Pre-processing the data
 3. Building the model to automate Loan Eligibility

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- 6 Stages of Machine Learning Lifecycle
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- Steps to build the Loan Eligibility Application
- Introduction to Streamlit



Streamlit

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- Deploying the rule based model using Streamlit

```
# 3. Building the model to automate Loan Eligibility
if (ApplicantIncome >= 50000):
    loan_status = 'Approved'
elif (LoanAmount < 500000):
    loan_status = 'Approved'
else:
    loan_status = 'Rejected'
return loan_status
```

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- Steps to build the Loan Eligibility Application
- Introduction to Streamlit
- Deploying the rule based model using Streamlit
- Building and deploying a machine learning model



Streamlit

Challenges with the approach (Streamlit + Google Colab)

- Reliability



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- Not for production use cases

Thank You