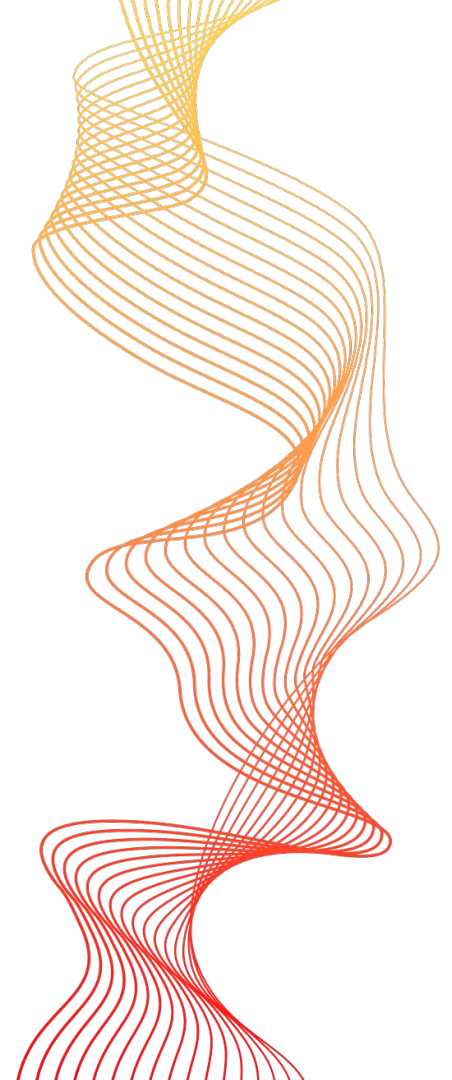# Building Production Based AI Tool

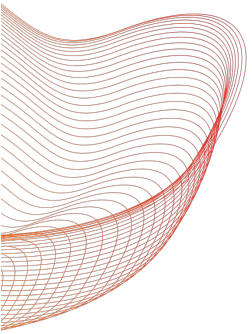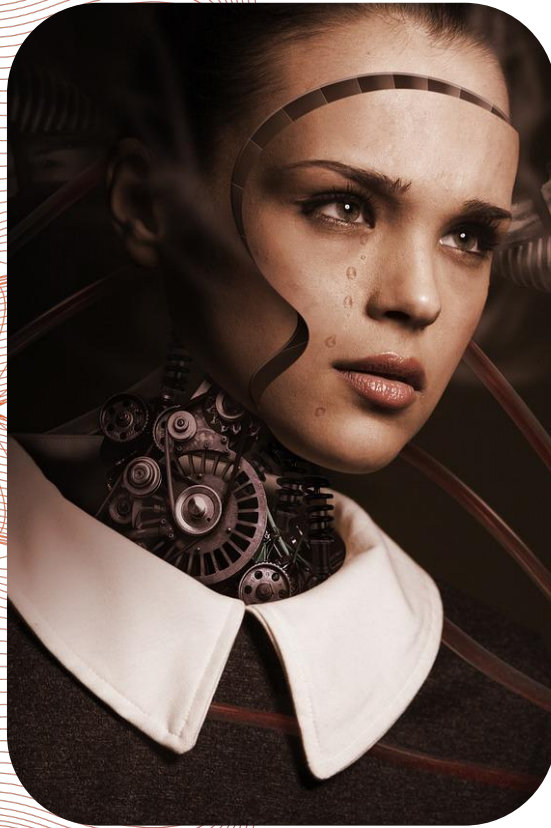This presentation is about building a production based AI tool.

Introduction

Artificial Intelligence (AI) is transforming the world we live in.

Many companies are investing in AI to improve business processes.

In this presentation, we will discuss how to build a production based AI tool.

Application of AI in Industry

- Predictive Maintenance
- Quality Control
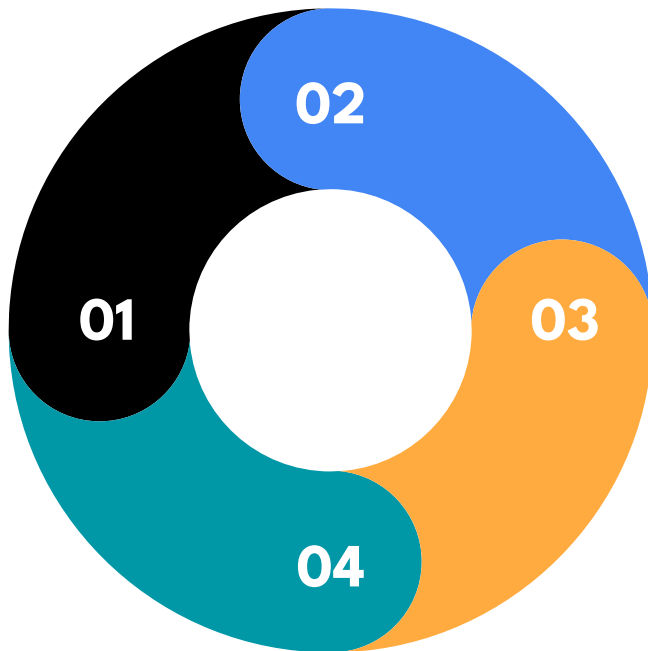- Process Optimization
- Efficiency Improvement

Building an Industrial Based AI Tool

Define the Problem

Model Selection and Training

Data Collection and Preparation

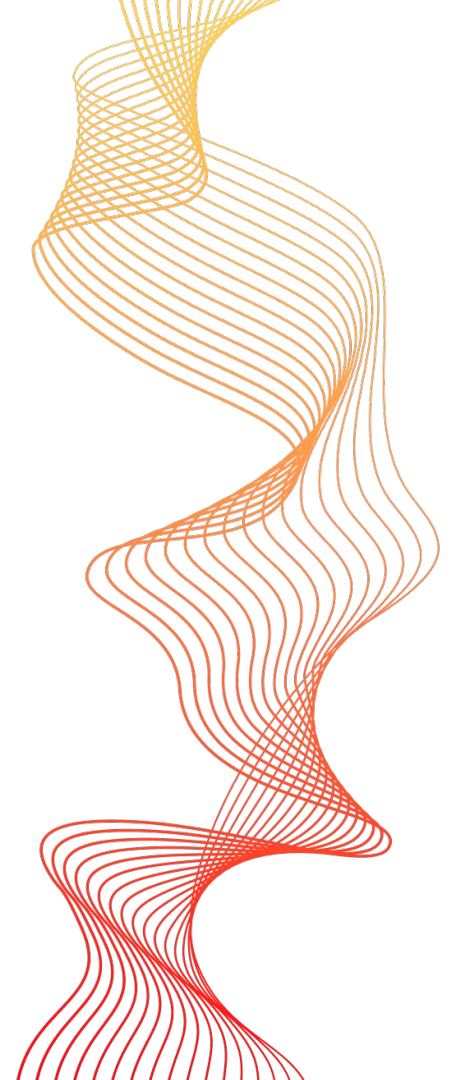Deployment and Monitoring

01

02

03

04

The Problem

It is difficult to predict lending rates of loans now a days due to Ghana's inconsistency inflations and economic growth.

Develop An Artificial Intelligence tool will give Clients fair rates on loans they are likely to take before applying.

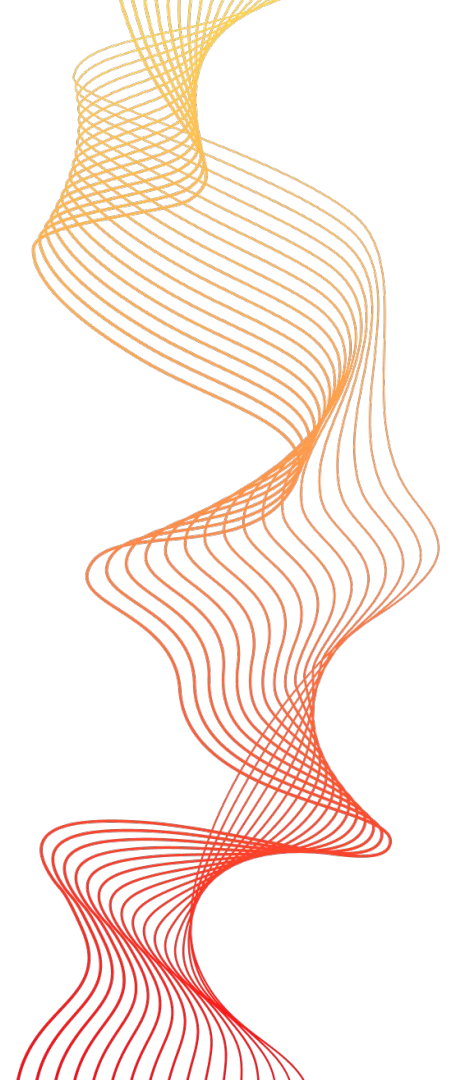The AI tool should be Easy to use by all classic of Clients.

Understanding the Problem is Key in AI Development

Questions to Ask...

1. What is Lending Rate?
2. 2.Factors that Affects Lending Rate in Ghana
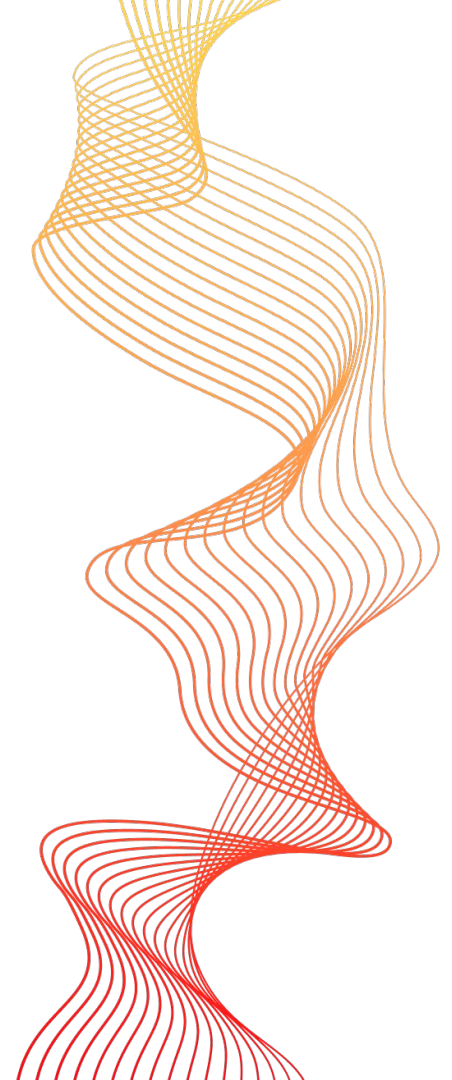
3. Where to get the dataset?

Answers to Understand the Problem.

A lending rate, also known as an interest rate, is the percentage at which a lender charges borrowers for the use of borrowed funds. It represents the cost of borrowing money and is typically expressed as an annual percentage rate (APR).
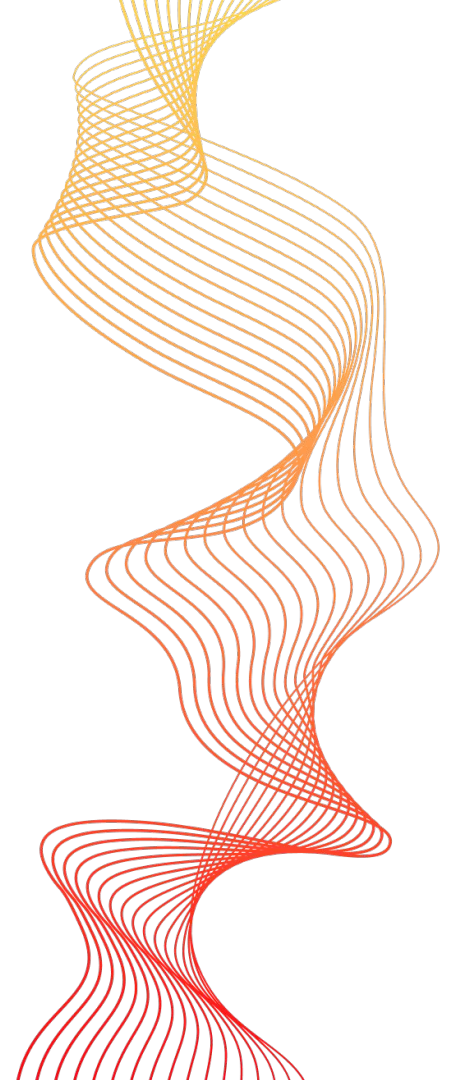
Factors that Affect lending rates in Ghana. (needs to understand the how the factors relate to lending rates)
1. Monetary Policy
2. Inflation
3. Economic Conditions
4. Risk Assessment
5. Cost of Funds
6. Market Competition

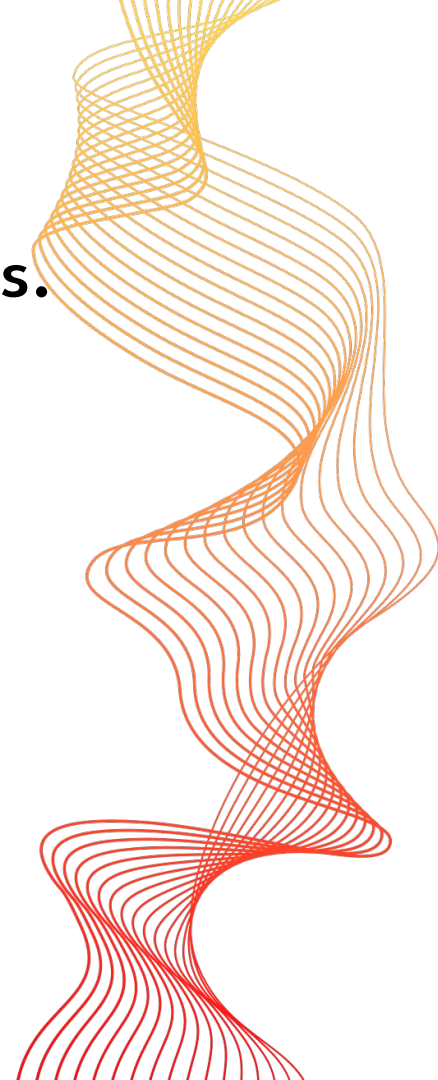# The Data Collection and Preparation Process

The Model Selection and Training Process.

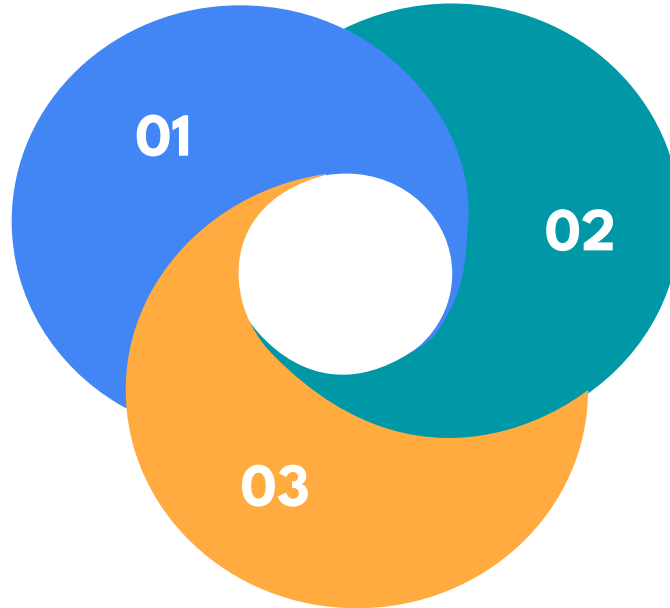**Factors that Affect Algorithms or Mathematics Model Selection**

1. Accuracy
2. Flexibility and Generality
3. Interpretability
4. Scalability
5. Computational Efficiency
6. Training Data Availability
7. Existing Research and Frameworks

Deployment

Once the AI model is developed and trained, it needs to be deployed for production use.

01

02

Choose a suitable deployment method such as cloud-based, containerized, or on-premises deployment.

03

Ensure that the deployment is secure, reliable, and scalable.

Conclusion

- Building a production based AI tool requires careful planning, design, and deployment.
- With the right approach, AI can greatly improve business processes and generate value.
- Thank you for listening.

Thank you. Please feel free to ask any questions. 😄