

Project Design Phase-I
Solution Architecture

Date	27 October 2023
Team ID	592655
Project Name	Disease Prediction Using Machine Learning
Maximum Marks	4 Marks

Solution Architecture:

Data Collection and Storage:

Gather healthcare data from diverse sources.
Store data in secure databases and data lakes.

Machine Learning Models:

Choose and train predictive models with relevant features.
Deploy models as APIs or microservices for real-time or batch predictions.

User Interface:

Develop a user-friendly web or mobile app for healthcare professionals and patients.
Enable data input, prediction viewing, and medical information access.

Security and Compliance:

Implement strong data privacy and security measures.
Ensure compliance with healthcare regulations and ethical considerations.

Monitoring and Improvement:

Set up monitoring for system performance and user feedback.
Continually update models based on new data and user insights.

Solution Architecture Diagram:

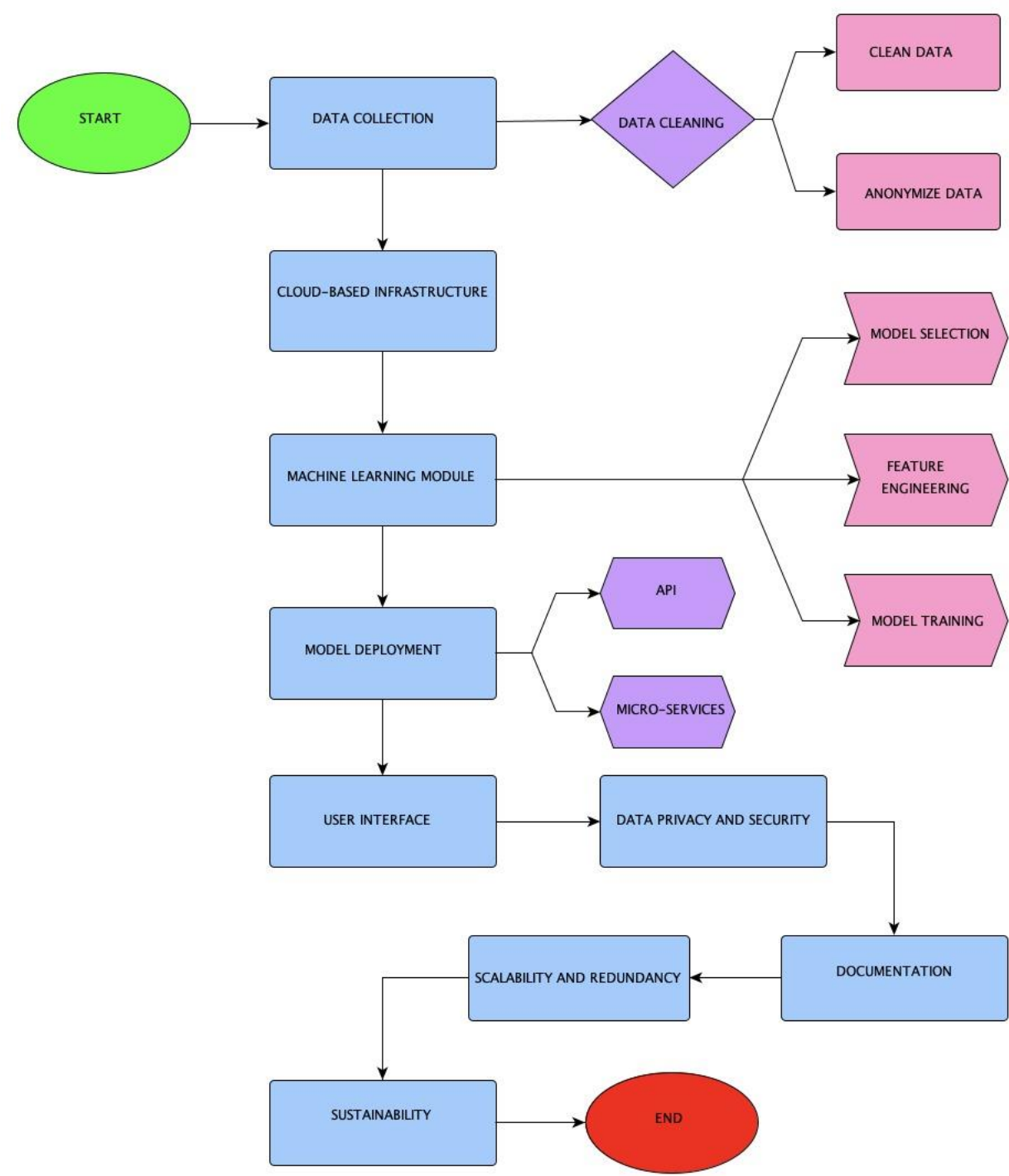


Figure 1: Architecture and data flow