***Test Plan for  
Machine Learning in Diabete*Version 1.0**

**Prepared by  
 Bhavana M**

1) Test Plan Identifier

• To check the percentage of Diabetes, blood pressure glucose level in blood is required

2) References

• SRS (software requirement specification) document

3) Introduction

• A machine learning model is created to check if a person has Diabetes using a data where glucose and bp are features and diabetes as label. Using this data, a model is created for further uses.

4) Test Items

• Download data in CSV format

• Using pandas extract features and label from CSV file

• Build ML Model using ML Algorithm

• Predict and analyze

5) Software Risk Issues

-N/A

6) Features to be Tested

• Download data in CSV format

• Using pandas extract features and label from CSV file

• Build ML Model using ML Algorithm

• Predict and analyze

7) Features not to be Tested

-N/A

8) Approach

• To check the functionality/requirements by entering the bloop pressure and glucose level to get the required output

9) Item Pass/Fail Criteria

• To input and check if all the functionality/requirements is working and the desired output is given

10) Suspension Criteria and Resumption Requirements

• to suspend if any functionality/requirements method is not working up to the requirements

11) Test Deliverables

• System test plan, cases, scripts, automation, execution, summary report

12) Remaining Test Tasks

-N/A

13) Environmental Needs

-N/A

14) Staffing and Training Needs

• 1 people required to test the product

15) Responsibilities

• Report to be given about the process of the product

16) Schedule

• Start date of testing is 07-06-2023 to 12-06-2023

17) Planning Risks and Contingencies

• The machine used for testing is not working or not yet arrived

18) Approvals

-given by product manager if the product functionality is working without any error

19) Glossary

-SRS (software requirement specification)

Test cases

T\_diabetes\_1 = Take 45 as glucose and 63 as blood pressure as input and calculated output required is 1 else it is fail

T\_diabetes\_2 = Take 40 as glucose and 92 as blood pressure as input and calculated output required is 0 else it is fail

T\_diabetes\_3 = Take 40 as glucose and 50 as blood pressure as input and calculated output required is 0 else it is fail (Negative test case)

T\_diabetes\_4 = Take 40 as glucose and 200 as blood pressure as input and calculated output required is 0 else it is fail (Negative test case)

T\_diabetes\_5 = Take 20 as glucose and -10 as blood pressure as input and calculated output required is 0 else it is fail (Negative test case)