**Test Plan for Machine Learning in Diabetes**

(Naïve Bayes)

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1. **Test Plan Identifier**

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

1. **References**

SRS (software requirement specification) document

1. **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.

1. **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 66input 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**

The 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 has not yet arrived

**18. Approvals**

-given by the 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 the calculated output required is 1 else it is fail

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

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

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

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