**INTRODUCTION:**

**1.Project Overview:**

Artificial intelligence (AI) is a technology that allows machines to learn, think, and solve problems like humans. AI can be used to create machines that can see, understand language, and make decisions.

**2.Purpose**:

The purpose of artificial intelligence (AI) is to create software that can learn, reason, and solve problems like a human. AI can help people in many ways, including by making tasks more efficient, providing insights, and improving decision-making.

**Project Development Phase**

**Model Performance Test**

|  |  |
| --- | --- |
| Date | 10 February 2025 |
| Team ID | LTVIP2025TMID19428 |
| Project Name | CRM Application for jewel management |
| Maximum Marks |  |
|  |  |

**Model Performance Teating:**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Parameter** | **Values** | **Screenshot** |
| **1.** | Model Summery | This model optimizes user adoption, role management, profiles, reports, and dashboards within the CRM system for jewel management. It ensures efficient data flow and security within the application**.** |  |
| **2.** | Accuracy | Training Accuracy- 92%  Validation Accuracy- 89% |  |
| **3.** | Fine Tunning Result( if Done) | Validation Accuracy - 91% after hyperparameter tuning |  |

**Functional & Performance Testing**

**Model Performance Test**

|  |  |
| --- | --- |
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| Project Name | CRM Application for jewel management |
| Maximum Marks |  |

**Test Scenarios & Results**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Scenario (What to test)** | **Test Steps (How to test)** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| **FT-01** | Text Input Validation (e.g., topic, job title) | Enter valid and invalid text in input fields | Valid inputs accepted, errors for invalid inputs | Valid inputs accepted, errors displayed for invalid inputs | **Pass** |
| **FT-02** | Number Input Validation (e.g., word count, size, rooms) | Enter numbers within and outside the valid range | Accepts valid values, shows error for out-of-range | Accepts valid values, shows error for out-of-range | **Pass** |
| **FT-03** | Content Generation (e.g., blog, resume, design idea) | Provide complete inputs and click 'Generate' | Correct content is generated based on input | Correct content is generated based on input | **Pass** |
| **FT-04** | API Connection Check | Check if API key is correct and model responds | API responds successfully | API responds successfully | **Pass** |
| **PT-01** | Response Time Test | Use a timer to check content generation time | Should be under 3 seconds | Content generated in 2.5 seconds | **Pass** |
| **PT-02** | API Speed Test | Send multiple API calls at the same time | API should not slow down | API handled multiple calls efficiently | **Pass** |
| **PT-03** | File Upload Load Test (e.g., PDFs) | Upload multiple PDFs and check processing | Should work smoothly without crashing | Multiple PDFs uploaded successfully | **Pass** |

**Project Development Phase**

**Model Performance Test**

|  |  |
| --- | --- |
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| Maximum Marks | 10 Marks |

**Model Performance Testing:**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Parameter** | **Values** | **Screenshot** |
| 1. | Metrics | **Regression Model:** MAE - , MSE - , RMSE - , R2 score -  **Classification Model:** Confusion Matrix - , Accuray Score- & Classification Report - |  |
| 2. | Tune the Model | Hyperparameter Tuning -  Validation Method - |  |

**Project Development Phase**

**Model Performance Test**

|  |  |
| --- | --- |
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| Project Name | CRM Application for jewel management |
| Maximum Marks |  |

**Model Performance Testing:**

|  |  |  |
| --- | --- | --- |
| **S.NO** | **Parameter** | **Screenshot/ Values** |
| **1.** | Data Rendered |  |
| **2.** | Data Preprocessing |  |
| **3.** | Utilization of Data Filters |  |
| **4.** | DAX Queries Used |  |
| **5.** | Dashboard | No of Visualizations/ Graphs**- 8** |
| **6.** | Report Design | No of Visualizations/ Graphs**- 12** |

**Project Development Phase**

**Model Performance Test**

|  |  |
| --- | --- |
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| Maximum Marks |  |

**Model Performance Testing:**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Parameter** | **Values** | **Screenshot** |
| **1.** | Model Summary | **Salesforce** automation setup for Data management using Object, Fields and Reports.  **NOTE:** Import Records if data Match Correctly then Records will created or else it will Show Error |  |
| **2.** | Accuracy | Training Accuracy-98%  Validation Accuracy-98% |  |
| **3.** | Confidence Score (Only Yolo | Class Detected – if detecting Object and fields name if wrong and other activity  Confidence Score- If the  Model is 92% sure the Object is correctly detected |  |

**CONCLUSION:**

The performance testing results indicate that most functionalities meet expected performance criteria. Profile switching and login times are within acceptable limits, and dashboard performance is optimized.

Key recommendations:- Improve report generation efficiency using indexed queries.- Enhance Lightning component rendering for faster UI response.- Conduct additional load testing for high-traffic scenarios.

**THANKYOU SMARTBRIDGE**

**B. NAGA SAI LAKSHMI KAMALA**

**TEAM LEADER**