Introduction:

## 1.project Overview:

 Artificial intelligence (AI) as a field encompassing the study and creation of intelligent systems and machines. It discusses its historical background, various subfields, notable systems such as expert systems, and the wide range of applications across different industries including finance, healthcare, and space exploration.

## 2.purpose:

The purpose of artificial intelligence (AI) is to replicate and mimic human intelligence in machines. AI systems are designed to analyse data, recognize patterns, make predictions, and perform tasks that typically require human intervention.

**Project Development Phase**

**Model Performance Test**

|  |  |
| --- | --- |
| Date | 10 February 2025 |
| Team ID | LTVIP2025TMID19432 |
| Project Name | Vehicle management system |
| Maximum Marks |  |

**Model Performance Testing:**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Parameter** | **Values** | **Screenshot** |
|  | Model Summary | * A Vehicle Management System is a software tool. It helps monitor, manage, and improve how a fleet of vehicles operates. It uses advanced technologies like GPS tracking, telematics, data analytics, and cloud computing. |  |
|  | Accuracy | Training Accuracy – 97%  Validation Accuracy -90% |  |
| 3. | Fine Tunning Result( if Done) | Validation Accuracy -97% |  |

**Functional & Performance Testing Template**

**Here’s a template to help you structure your functional and performance testing, covering test objectives, system under test, test plan outline, execution, and key performance indicators (KPIs):**

**Model Performance Test**

|  |  |
| --- | --- |
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| Project Name | Vehicle management system |
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**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 | As expected | 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 | Works correctly | pass |
| **FT-03** | Content Generation (e.g., blog, resume, design idea) | Provide complete inputs and click "Generate" | Correct content is generated based on input | Content generated accurately | pass |
| **FT-04** | API Connection Check | Check if API key is correct and model responds | API responds successfully | The vehicle management system API successfully processed requests and returned valid responses | pass |
| **PT-01** | Response Time Test | Use a timer to check content generation time | Should be under 3 seconds | The system responded within the expected time limit, ensuring quick data retrieval. | pass |
| **PT-02** | API Speed Test | Send multiple API calls at the same time | API should not slow down | Performance remained stable, and the system handled concurrent API requests efficiently without lag. | pass |
| **PT-03** | File Upload Load Test (e.g., PDFs) | Upload multiple PDFs and check processing | Should work smoothly without crashing | The vehicle management system operated seamlessly under load without unexpected crashes or failures. | pass |

**Project Development Phase**

**Model Performance Test**

|  |  |
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| Project Name | Vehicle management system |
| Maximum Marks | 10 Marks |

**Model Performance Testing:**

Project team shall fill the following information in model performance testing template.

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Parameter** | **Values** | **Screenshot** |
|  | Metrics | **Regression Model:** MAE - , MSE - , RMSE - , R2 score -0  **Classification Model:** Confusion Matrix - , Accuray Score- & Classification Report - |  |
|  | Tune the Model | Hyperparameter Tuning -  Validation Method - |  |
|  |  |  |  |
|  |  |  |  |

**Project Development Phase**

**Model Performance Test**

|  |  |
| --- | --- |
| Date | 10 February 2025 |
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| Maximum Marks |  |

**Model Performance Testing:**

Project team shall fill the following information in model performance testing template.

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

**Project Development Phase**

**Model Performance Test**

|  |  |
| --- | --- |
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| Project Name | Vehicle management system |
| Maximum Marks |  |

**Model Performance Testing:**

Project team shall fill the following information in model performance testing template.

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Parameter** | **Values** | **screenshot** |
|  | 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 |  |
|  | Accuracy | Training Accuracy - 98%  Validation Accuracy - 98% |  |
| 3. | Confidence Score (Only Yolo Projects) | 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:

Performance testing evaluates how a system performs under specific conditions. It helps ensure that an application or website is responsive, stable, and meets user expectations.

THANK YOU TEAM SMARTBRIDGE

HEMALATHA(TEAMLEADER)