**AIPM**

**Monitoring and controlling processes.**

1. **Performance Reports:**

**Project Detail Review**

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| **Performance report** | |
| Project Name: PREDICTION OF BRAKE PAD WEAR OUT USING ANN | Date: 30/6/2023 |
| Prepared By: Amir | Project Type (S, M, L): S |
| Project Manager: Adam | Project Sponsor: - |

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| --- | --- | --- | --- | --- |
| **Number ID** | **Date Opened** | **Action Description** | **Assigned To** | **Date Close** |
| 1 | 1/4/2023 | Standard of Work | Adam | 14/4/2023 |
| 2 | 15/4/2023 | Analyse Risk | Adam | 30/4/2023 |
| 3 | 25/4/2023 | Process Improvement | Farihah | 15/5/2023 |
| 4 | 6/5/2020 | Quality Assurance | Farihah | 16/5/2023 |
| 5 | 15/5/2023 | Performance Checking | Nawal | 20/5/2023 |
| 6 | 25/5/2023 | Analyse Financial Performance | Nawal | 10/6/2023 |
| 7 | 1/6/2023 | Management of Personnel | Amir | 18/6/2023 |
| 8 | 25/6/2023 | Timeline and Milestones | Amir | 1/7/2023 |

1. **Requested Changes:**



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| **CHANGE REQUEST FORM** | | |
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| **Change Description** | | |
| **Project Name: PREDICTION OF BRAKE PAD WEAR OUT USING ANN** | **Change Name: -** | **Number: 001246** |
|  |  |  |
| **Requested By: Nawal – Development Team** | **Contact: 0192133775** | **Date: 30/5/2023** |
| **Description of Change: This change request aims to improve the precision and efficiency of the brake pad wear prediction model by integrating supplementary features into the current feature set.** | | |
| **Reason for Change:**  **Vehicle Status:**  **Introduce a categorical variable denoting the status of the vehicle (e.g., new, used, refurbished) to enhance the brake pad wear prediction model.**  **Mileage Incorporation:**  **Integrate the vehicle mileage as a continuous variable to offer more detailed information and improve the accuracy of brake pad wear prediction.**  **3)Historical Pricing Data: Access historical pricing data for similar vehicles in the market to establish trends and patterns.** | | |
| **Priority [Circle One]: 1. High 2. Medium 3. Low** | | |
| **Impact on Deliverables:**  **For the Brake Pad Wear Prediction Model, the expected impact is positive. This stems from the inclusion of additional features, such as vehicle condition and mileage, which are anticipated to significantly enhance the accuracy and effectiveness of the brake pad wear prediction model. As the model holds a key position within the project, these improvements are crucial for its overall performance. Moreover, the positive impact extends to Risk Management. This change effectively addresses potential limitations in the existing brake pad wear prediction model, reducing the risk of inaccuracies and improving the model's ability to adapt to changing conditions in the automotive environment.** | | |
| **Impact of Not Responding to Change (and Reason Why):** | | |
| **Date Needed: 9/6/2023** | **Approval of Request: Approved** | **Date: 1/6/2023** |

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| **Change Impact** |
| **Affected Areas: Task Dependencies, Timeline, Milestones, Project Objectives, and Budget within the scope.** |
| **Cost Assessment: Labor, Training, Development, and Overhead Costs.** |
| **Risk Assessment: Unforeseen Dependencies, Increased Complexity, Schedule Delays, and Budget Overruns.** |
| **Quality Assessment: Performance, Compatibility, and Adherence to Quality Standards.** |
| **Resource Consideration: Skilled Personnel, Project Management Expertise, Training, Development, and Budget Reallocation.** |
| **Timeframe: Comprehensive Impact Analysis, Detailed Planning, and Continuous Monitoring and Adjustments.** |
| **Additional Effort: Allocation of Adequate Resources and Management of Resource Constraints.** |
| **Deadline Impact: Analysis of Impact, Risk Mitigation, and Adjustments to the Timeline.** |
| **Alternatives and Recommendations: Phased Implementation, Parallel Workstreams, and Technology Upgrades.** |
| **Comments:** |

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| **Sign Offs** | |
| **[Circle One]: 1. Accepted 2. Deferred 3. Rejected 4. More Info Requested** | |
| **Comments:** | |
| **Project Manager Signature: Adam** | **Date: 4/6/2023** |
| **Decision Maker Signature: Farihah** | **Date: 4/6/2023** |

1. **Updates on Plan:**

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| ID | Task Name | Duration | Start | Finish | Predecessors |
| 1 | Project planning | 9 days | 7/10/2023 | 15/10/2023 |  |
| 2 | Data collection and preprocessing | 9 days | 14/10/2023 | 22/10/2023 | 1 |
| 3 | Model development | 40 days | 21/10/2023 | 30/11/2023 | 2 |
| 4 | Testing model performance | 9 days | 28/11/2023 | 5/12/2023 | 3 |
| 5 | Validation | 5 days | 3/12/2023 | 7/12/2023 | 4 |
| 6 | Deployment the complete model | 22 days | 22/12/2023 | 13/1/2023 | 3,4,5 |
| 7 | Documentation of model architecture | 12 days | 11/12/2023 | 22/12/2023 | 6 |
| 8 | Training and support | 17 days | 20/12/2023 | 5/1/2024 | 7 |
| 9 | Maintenance | 13 days | 3/1/2023 | 16/1/2024 | 8 |
| 10 | Stakeholder communication | 6 days | 14/1/2024 | 19/1/2024 | 9 |
| 11 | Evaluation and Optimization | 7 days | 17/1/2024 | 24/1/2024 | 9 |

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| ID | Task Name | October | | | November | December | | | | **January** | | |
| 7/10 | 14/10 | 21/10 | 28/11 | 3/12 | 28/12 | 11/12 | 20/12 | 3/1 | 14/1 | 17/1 |
| 1. | Project planning |  |  |  |  |  |  |  |  |  |  |  |
| 2 | Data collection and preprocessing |  |  |  |  |  |  |  |  |  |  |  |
| 3 | Model development |  |  |  |  |  |  |  |  |  |  |  |
| 4 | Testing model performance |  |  |  |  |  |  |  |  |  |  |  |
| 5 | Validation |  |  |  |  |  |  |  |  |  |  |  |
| 6 | Deployment the complete model |  |  |  |  |  |  |  |  |  |  |  |
| 7 | Documentation of model architecture |  |  |  |  |  |  |  |  |  |  |  |
| 8 | Training and support |  |  |  |  |  |  |  |  |  |  |  |
| 9 | Maintenance |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Stakeholder communication |  |  |  |  |  |  |  |  |  |  |  |
| 11 | Evaluation and Optimization |  |  |  |  |  |  |  |  |  |  |  |