**Model Validation / Review Report**

<<modelop.storedModel.modelMetaData.name>>

<<modelop.storedModel.modelMetaData.description>>

<<modelop.storedModel.id>>

**Prepared by:** *Enter the document preparer’s name here*

**Model Developed by:** <<modelop.storedModel.createdBy>>

**Model Developed on:** <<modelop.deployableModel.createdDate>>

**Executive Summary**

*Provide a concise summary description of the model and its proposed use(s), model results, and key conclusions from the model review process.*

**Statistical Analysis / Testing Summary**

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| **Category** | **Passes** | **Reason** |
| Performance | <<modelop.modelTestResult.dmnRuleResults.[testCategory=Performance].passes>> | <<modelop.modelTestResult.dmnRuleResults.[testCategory=Performance].reason>> |
| Data Drift - Kolmogorov Smirnov | <<modelop.modelTestResult.dmnRuleResults.[testCategory=KS Data Drift].passes>> | <<modelop.modelTestResult.dmnRuleResults.[testCategory=KS Data Drift].reason>> |
| Concept Drift - Kolmogorov Smirnov | <<modelop.modelTestResult.dmnRuleResults.[testCategory=KS Concept Drift].passes>> | <<modelop.modelTestResult.dmnRuleResults.[testCategory=KS Concept Drift].reason>> |
| Characteristic Stability | <<modelop.modelTestResult.dmnRuleResults.[testCategory=Characteristic Stability].passes>> | <<modelop.modelTestResult.dmnRuleResults.[testCategory=Characteristic Stability].reason>> |
| Bias Disparity | <<modelop.modelTestResult.dmnRuleResults.[testCategory=Bias Disparity].passes>> | <<modelop.modelTestResult.dmnRuleResults.[testCategory=Bias Disparity].reason>> |
| Autocorrelation | <<modelop.modelTestResult.dmnRuleResults.[testCategory=Autocorrelation].passes>> | <<modelop.modelTestResult.dmnRuleResults.[testCategory=Autocorrelation].reason>> |
| Homoscedacticity: Breusch Pagan | <<modelop.modelTestResult.dmnRuleResults.[testCategory=Homoscedacticity: Breusch Pagan].passes>> | <<modelop.modelTestResult.dmnRuleResults.[testCategory=Homoscedacticity: Breusch Pagan].reason>> |
| Homoscedacticity: Engle Lagrange Multiplier | <<modelop.modelTestResult.dmnRuleResults.[testCategory=Homoscedacticity: Engle Lagrange Multiplier].passes>> | <<modelop.modelTestResult.dmnRuleResults.[testCategory=Homoscedacticity: Engle Lagrange Multiplier].reason>> |
| Homoscedacticity: Ljung Box Q | <<modelop.modelTestResult.dmnRuleResults.[testCategory=Homoscedacticity: Ljung Box Q].passes>> | <<modelop.modelTestResult.dmnRuleResults.[testCategory=Homoscedacticity: Ljung Box Q].reason>> |
| Normality: Kolmogorov Smirnov | <<modelop.modelTestResult.dmnRuleResults.[testCategory=Normality: Kolmogorov Smirnov].passes>> | <<modelop.modelTestResult.dmnRuleResults.[testCategory=Normality: Kolmogorov Smirnov].reason>> |
| Normality: Anderson Darling | <<modelop.modelTestResult.dmnRuleResults.[testCategory=Normality: Anderson Darling].passes>> | <<modelop.modelTestResult.dmnRuleResults.[testCategory=Normality: Anderson Darling].reason>> |
| Normality: Cramer Von Mises | <<modelop.modelTestResult.dmnRuleResults.[testCategory=Normality: Cramer Von Mises].passes>> | <<modelop.modelTestResult.dmnRuleResults.[testCategory=Normality: Cramer Von Mises].reason>> |
| Linearity: Pearson Correlation | <<modelop.modelTestResult.dmnRuleResults.[testCategory=Linearity: Pearson Correlation].passes>> | <<modelop.modelTestResult.dmnRuleResults.[testCategory=Linearity: Pearson Correlation].reason>> |
| Mulitcolinearity | <<modelop.modelTestResult.dmnRuleResults.[testCategory=Mulitcolinearity].passes>> | <<modelop.modelTestResult.dmnRuleResults.[testCategory=Mulitcolinearity].reason>> |

**Statistical Analysis**

**Performance Metrics**

*Provide a textual analysis of the classification metrics and what they indicate*

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| <<modelop.modelTestResult.testResults.(performance).test\_id=performance\_regression\_metrics>> |

Table 1 - Classification Metrics

**Stability Analysis**

*Provide a textual analysis of the stability analysis and what they indicate*

<<modelopgraph.stability.\*>>

**Statistical Diagnostics**

*Below is a detailed list of the standardized statistical diagnostics tests for the model.*

Autocorrelation Metrics:

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| *Durbin-Watson Test:*  *dw\_statistic* : <<modelop.modelTestResult.testResults.(dw\_statistic)>> |

Normality Metrics:

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| *Kolmogorov-Smirnov Test:*  *ks\_statistic* : <<modelop.modelTestResult.testResults.(ks\_statistic)>>  *ks\_p\_value*: <<modelop.modelTestResult.testResults.(ks\_p\_value)>> |

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| *Cramer-von Mises Test:*  *cvm\_statistic*: <<modelop.modelTestResult.testResults.(cvm\_statistic)>>  *cvm\_p\_value*: <<modelop.modelTestResult.testResults.(cvm\_p\_value)>> |

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| *Anderson-Darling Test:*  *ad\_statistic:*: <<modelop.modelTestResult.testResults.(ad\_statistic)>>  *ad\_p\_value*: <<modelop.modelTestResult.testResults.(ad\_p\_value)>> |

Linearity Metrics:

*Pearson Correlation*

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| <<modelop.modelTestResult.testResults.(linearity)[0].values>> |

Homoscedasticity Metrics:

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| *Ljung-Box Q Test:*  *Homoscedasticity\_minLjungBoxQPValue:* <<modelop.modelTestResult.testResults.(Homoscedasticity\_minLjungBoxQPValue)>>  *Homoscedasticity\_maxLjungBoxQPValue:* <<modelop.modelTestResult.testResults.(Homoscedasticity\_maxLjungBoxQPValue)>> |

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| *Engle's Lagrange Multiplier Test:*  *engle\_lm\_statistic:* <<modelop.modelTestResult.testResults.(engle\_lm\_statistic)>>  *engle\_lm\_p\_value*: <<modelop.modelTestResult.testResults.(engle\_lm\_p\_value)>> |

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| *Breusch-Pagan Test:*  *breusch\_pagan\_lm\_statistic:* <<modelop.modelTestResult.testResults.(breusch\_pagan\_lm\_statistic)>>  *breusch\_pagan\_lm\_p\_value*: <<modelop.modelTestResult.testResults.(breusch\_pagan\_lm\_p\_value)>>  *breusch\_pagan\_f\_statistic:* <<modelop.modelTestResult.testResults.(breusch\_pagan\_f\_statistic)>>  *breusch\_pagan\_f\_p\_value*: <<modelop.modelTestResult.testResults.(breusch\_pagan\_f\_p\_value)>> |

Variance Inflation Factors:

*Variance Inflation Factors:*

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| --- |
| <<modelop.modelTestResult.testResults.(multicollinearity)[0].values>> |

**Ethical Fairness Analysis**

*Provide a textual analysis of bias results and control measures put in place to eliminate the bias in the provided data and results.*

**Bias Analysis for Protected Classes**

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| *Bias Disparity:*  *Bias\_minPPRDisparityValue:* <<modelop.modelTestResult.testResults.(Bias\_minPPRDisparityValue)>>  *Bias\_minPPRDisparityValueFeature:* <<modelop.modelTestResult.testResults.(Bias\_minPPRDisparityValueFeature)>>  *Bias\_maxPPRDisparityValue:* <<modelop.modelTestResult.testResults.(Bias\_maxPPRDisparityValue)>>  *Bias\_maxPPRDisparityValueFeature:* <<modelop.modelTestResult.testResults.(Bias\_maxPPRDisparityValueFeature)>> |