**Model Development Phase Template**

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| Date | 15 March 2024 |
| Team ID | SWTID1720019244 |
| Project Title | Traffictelligence: Advanced Traffic Volume Estimation with Machine Learning |
| Maximum Marks | 4 Marks |

**Initial Model Training Code, Model Validation and Evaluation Report**

The initial model training code will be showcased in the future through a screenshot. The model validation and evaluation report will include classification reports, accuracy, and confusion matrices for multiple models, presented through respective screenshots.

**Initial Model Training Code:**

Paste the screenshot of the model training code

**Model Validation and Evaluation Report:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Model** | **Classification report** | **Accuracy** | **Confusion Matrix** |
| Linear Regresssion | **A screenshot of a computer  Description automatically generated** | **80** |  |
| Random Forest | **A computer screen with a computer code  Description automatically generated** | **98** | **-** |
| Decision Tree |  | **50** |  |
| KNN |  | **67** |  |
| XG boost |  | **80** |  |