**Marking Criteria: Road Trajectory Prediction**

The competition will be evaluated based on the following detailed scoring criteria. Each team must submit a 20-page limit report summarizing their model and methodology, explaining the application scenarios and potential impact of the prediction results. All aspects of submission count toward the 20-page limit (Summary Sheet, Table of Contents, Reference List, and any Appendices)

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| **Data Processing** | * Integrate historical GPS trajectory data
* Integrate external data sources such as road networks, traffic conditions, etc.
* Encode time, latitude, and longitude accurately
* Ensure consistency and correctness of encoded data
 | 20% |
| **Feature Engineering** | * Extract temporal features (e.g., hour of the day, day of the week, holidays)
* Extract spatial features (e.g., road network)
* Select and optimize features to improve model performance
* Justify the chosen features and their impact on the model
 | 10% |
| **Model Development and Evaluation** | * Choose appropriate machine learning or deep learning models
* Train the model using the training set
* Fine-tune hyperparameters to improve accuracy
* Validate the model using the validation set
* Evaluate performance and make necessary adjustments
* Evaluate the final performance of the model using the test set
* Compute and report evaluation metrics
 | 30% |
| **Innovation and Creativity** | * Use of novel approaches or techniques to enhance prediction accuracy
 | 20% |
| **Report Quality** | * Clarity and comprehensiveness of the one-page report summarizing the model and methodology
* Explanation of application scenarios and potential impact of the prediction results
 | 20% |