

## REVIEWER'S REPORT

Manuscript No.: IJAR- 55747

**Title: SUPERVISED MODELS FOR ESTIMATING LINK-LEVEL TRAFFIC DENSITY USING TRAJECTORY DATA**

### Recommendation:

Accept as it is .....  
**Accept after minor revision.....X.....**  
 Accept after major revision .....  
 Do not accept (*Reasons below*) .....

Rating	Excel.	Good	Fair	Poor
Originality		X		
Techn. Quality		X		
Clarity		X		
Significance	X			

Reviewer Name: Manohar Reddy Sokkula

### *Detailed Reviewer's Report*

This paper tells a clear, practical story: using e-hailing trajectory data to estimate link-level traffic density in Abidjan where fixed sensors are sparse. The model comparison is well structured, and the results consistently show Random Forest as the strongest performer with tight residuals and good calibration. The main thing holding it back is reproducibility—please tighten dataset/target definition details and clean up a few wording + reporting issues to avoid reviewer pushback.

### *Changes needed:*

- **Subject–verb agreement**

Original: “Random Forest provide consistently accurate and stable predictions...”

Suggested: “Random Forest **provides** consistently accurate and stable predictions...”

- **Fix model name consistency**

Original: “Support Vector Regression (SVR)... Finally, an Artificial Neural Network (ANN)... ... SVM Regressor ... Artificial Neural Network”

Suggested: Use one naming convention throughout (e.g., “**SVR**” everywhere and “**ANN**” everywhere), including Table 2 and Table 3 headings.

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- **Hyperparameter table correction (avoid credibility hit)**

Original (Table 2): “Random Forest {'learning\_rate': 0.1, 'max\_depth': 6, 'n\_estimators': 200, 'subsample': 0.8}”

Suggested: Replace with Random Forest parameters that match the actual implementation

(e.g., `n_estimators`, `max_depth`, `max_features`, `min_samples_split`, `min_samples_leaf`, `bootstrap`) **or** rename the model if it is actually Gradient Boosting/XGBoost.