|  |  |
| --- | --- |
| Overall grammatical modification | All pages |
| Incorporate a Discussion section where you compare the results and functionalities of your prediction model to those listed in the summary table from the Related Works section. | Under discussion, page 507 |
| Discuss the differences in accuracy, ROC AUC scores, and real-time prediction capabilities. Highlight the strengths of integrating Twitter hourly sentiments with crime data records. | Under discussion, page 507 |
| Emphasize the novelty of your solution, particularly how the SHAP framework and xgboost algorithm enhance the model's interpretability and prediction accuracy. | Under discussion, page 507 |
| Consider adding visual aids, such as flowcharts or diagrams, to illustrate the architecture and functionalities of your crime prediction model. | Under methodology, page 502 |
| Elaborate on the specific features and functionalities of the SHAP framework. How does it enhance the model's interpretability? What insights does it provide into the importance of different features? | Under discussion, page 507 |
| Provide more details on the xgboost algorithm. How does it improve the model's prediction accuracy? Discuss the specific tuning parameters used and their impact on the model's performance. | Under discussion, page 507 |
| Discuss the implications of using Twitter hourly sentiments for crime prediction. How do they correlate with actual crime incidents? Are there any challenges or limitations associated with using Twitter data for this purpose? | Under discussion, page 508 |
| Offer a more detailed analysis of the results, especially in terms of accuracy and ROC AUC scores. Provide quantitative metrics or case studies to support your claims.  Consider performing a comparative analysis with other existing crime prediction models to validate the superiority of your approach. | Under discussion, page 508 |
| Expand on the potential applications of your crime prediction model in various real-world scenarios. Discuss how different stakeholders, such as law enforcement agencies, policymakers, and the general public, can benefit from the system. | Under discussion, page 508 |
| Delve into the potential challenges or limitations of implementing this approach in real-world situations. Are there any concerns related to data privacy, accuracy, or scalability? | Under discussion, page 508 |
| Future Work: Discuss potential areas of improvement for the crime prediction model. Are there other emerging technologies or algorithms that could further enhance the system's capabilities?         Consider exploring the integration of other social media platforms or data sources to further optimize crime prediction accuracy. | Under discussion, page 508 |
|  |  |
|  |  |