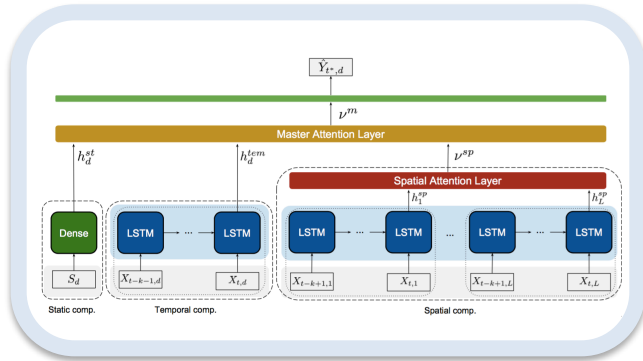


Forecasting Heroin Overdose Occurrences from Crime Incidents

Ali Mert Ertugrul, Yu-Ru Lin, Christina Mair, Tugba Taskaya Temizel

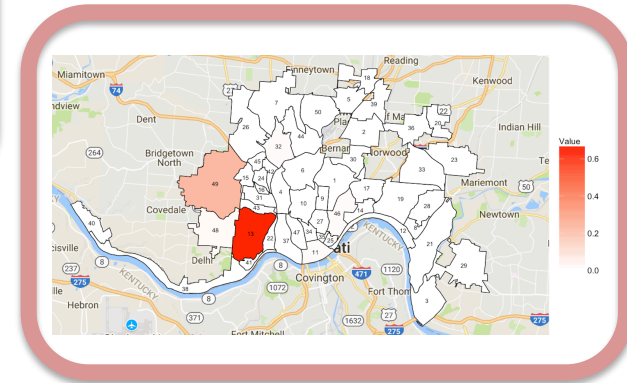
- 📈 Opioid overdose has increased at an alarming rate
- To enhance the overdose surveillance
 - To identify the areas in need of prevention effort
- We explore the forecasting capability of heroin overdose occurrences using real-time crime data.



Model spatiotemporal patterns of crime incidents to forecast future heroin overdose occurrences

Identification of significant static and dynamic features

No_Unique_Incidents	0.384
No_Incidents_UCR_Groups	0.279
Part_2_Minor	0.561
Theft	0.484
Burglary/Breaking Entering	0.450
Robbery	0.144
Aggravated Assaults	0.080
Rape	0.085
Unauthorized Use	0.099



Discovering the predictive hotspot neighborhoods

