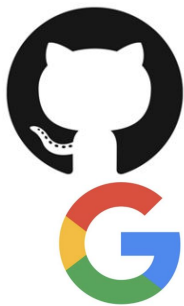


COVID-19 Hotspot Mapping

Clement Gendler, Dustin Tissaw, Neva Flaherty

Our Ambition:

Identify potential COVID-19 hotspots



Data Collection



Exploration &
Cleaning



Modelling

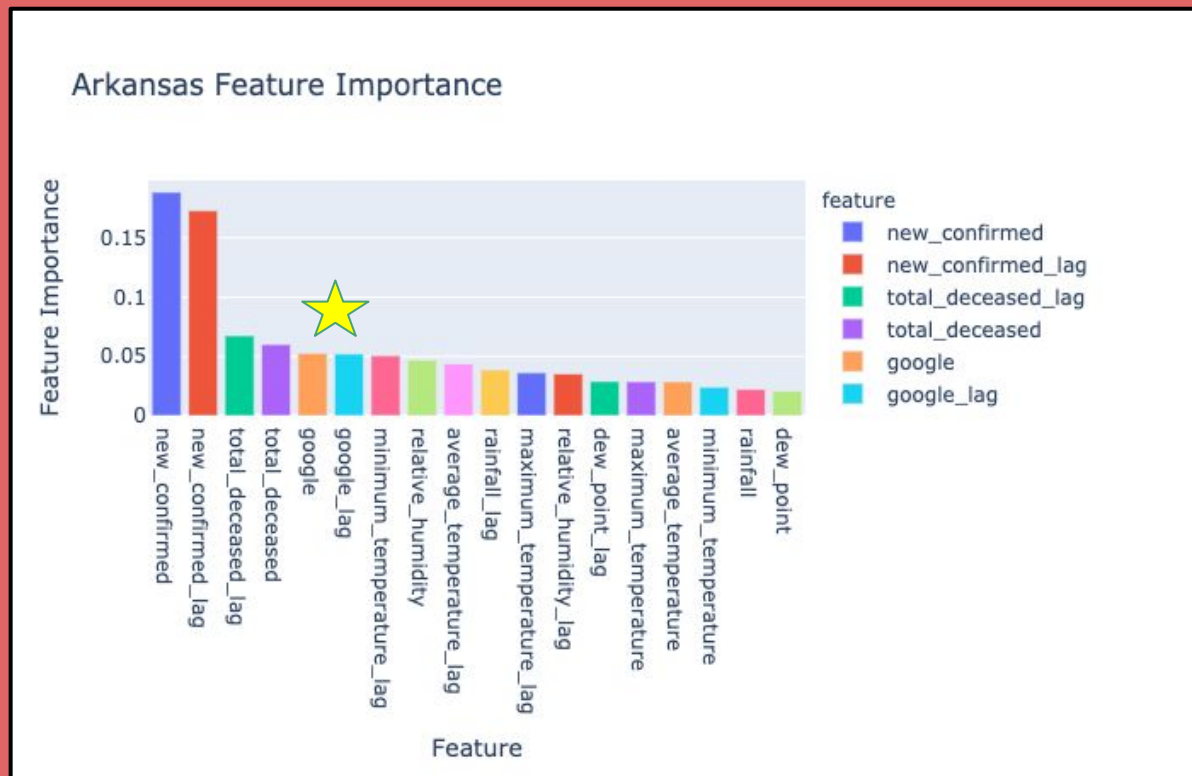


Visualization

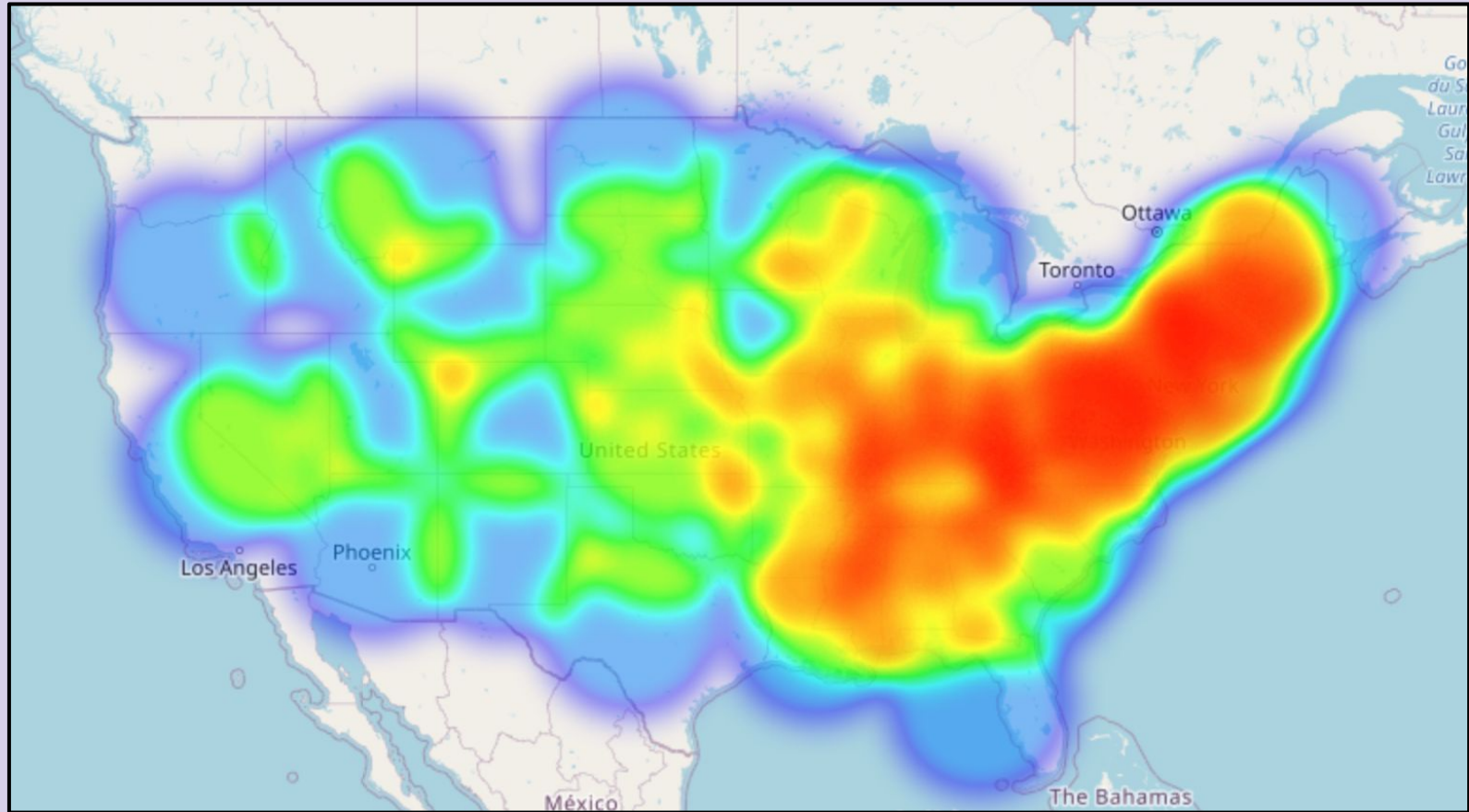


Conclusions

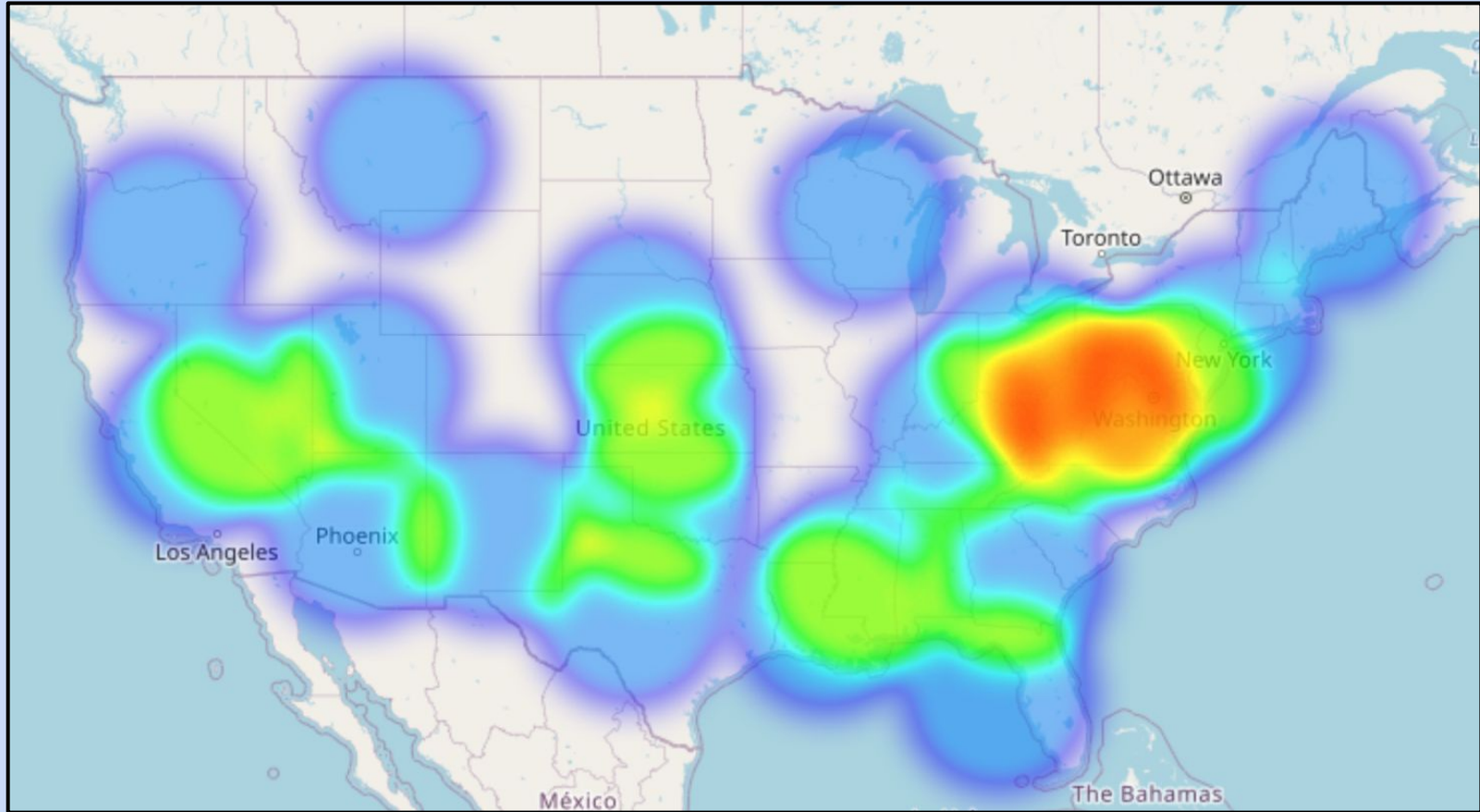
Feature Engineering with Random Forest



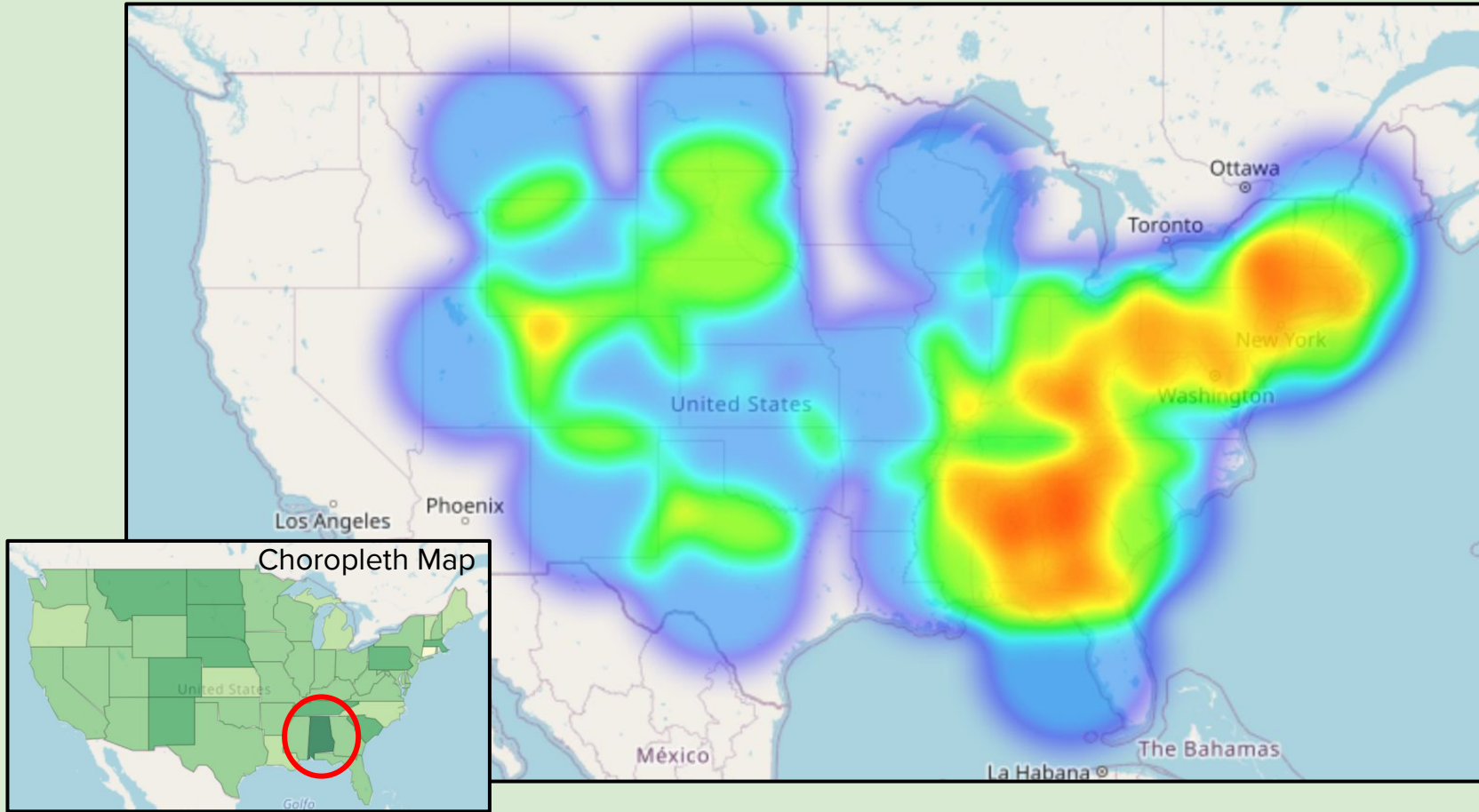
Model Selection & Tuning - Baseline Model



Model Selection & Tuning - Facebook Prophet Model



Model Selection & Tuning - IID Model





Conclusions

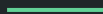


Key Takeaways

- Next hotspots

Next Steps

1. **Refine** with Mobility, Government Response
2. **Align** to Epidemiology modelling practices
3. **Drill-down** to County level



Thank you