

TrafficFlow

Team Chillington:

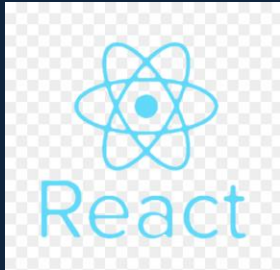
Macarie Darius-Paul

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Technologies used:

Frontend:



- React with TailwindCSS for UI components.
- - Mapbox GL for map visualization.
- - Dynamic updates: colored streets and heatmap layers based on live data.
- - Modal graph visualization for congestion per zone.
- - GeoJSON streets rendered as LineStrings to show traffic paths.

Technologies used:

Backend:



- - Python Flask API serves endpoints for frontend consumption.
- - Kafka Producer streams taxi trips.
- - Endpoints: /api/congestion, /api/streets, /api/hotspots, /api/stats
- - Streets converted to GeoJSON for map visualization.
- - LineString geometry used to represent streets as connected points.

Technologies used:

AI



OpenAI



LM Studio

groq™



LLaMA



A decorative pattern of hexagons in various shades of blue, orange, and white, arranged in a honeycomb-like structure on the left side of the slide.

Thank you

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