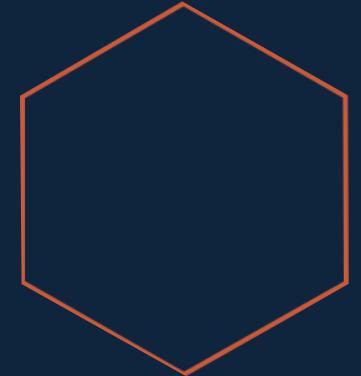


TrafficFlow

Team Chillington:

Macarie Darius-Paul

Ciurescu Radu-Silviu



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.

GeoJSON

Technologies used:



LM Studio

AI

The groq logo, which is the word "groq" in a bold, black, sans-serif font with a small trademark symbol (TM) at the top right.

The LLaMA logo, featuring a blue infinity symbol followed by the word "LLaMA" in a black sans-serif font, with a small cartoon llama icon to the right.



Thank you

Team Chillington:

Macarie Darius-Paul

Ciurescu Radu-Silviu