

CS241 Final Project

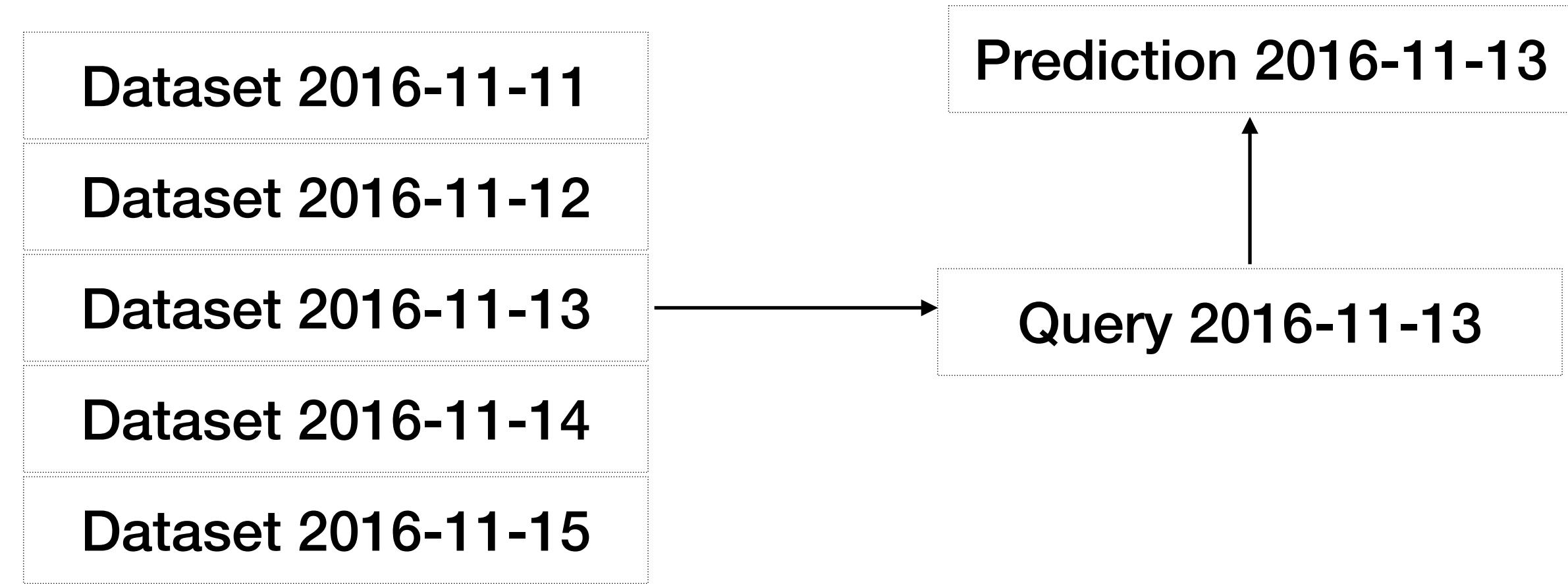
A Useful and Efficient App
for Analyzing Ride-Hailing Service



519021910913 黃喆敏

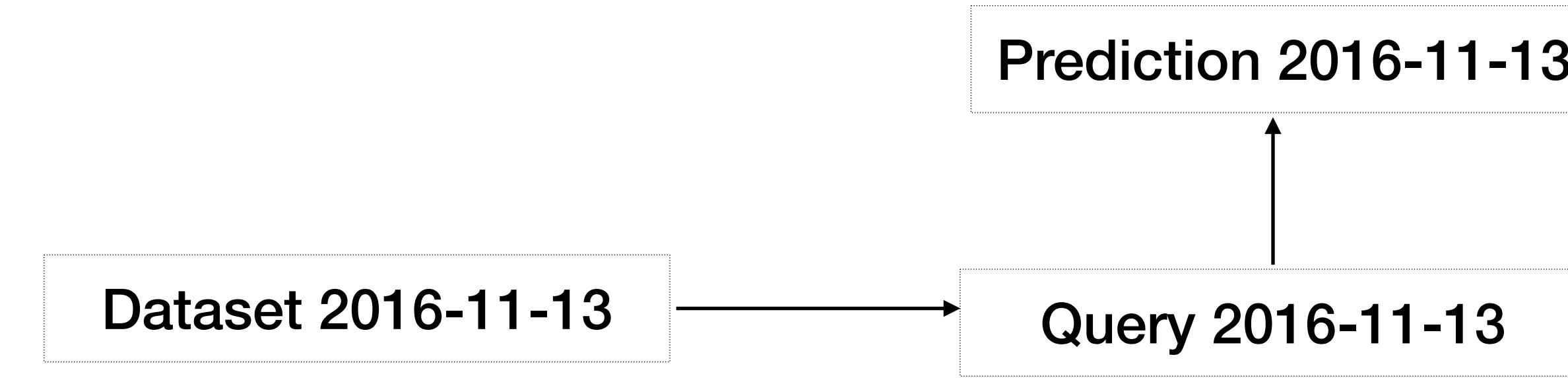
Efficient Dataset Loading

- Multi-thread technique
- Lazy loading technique



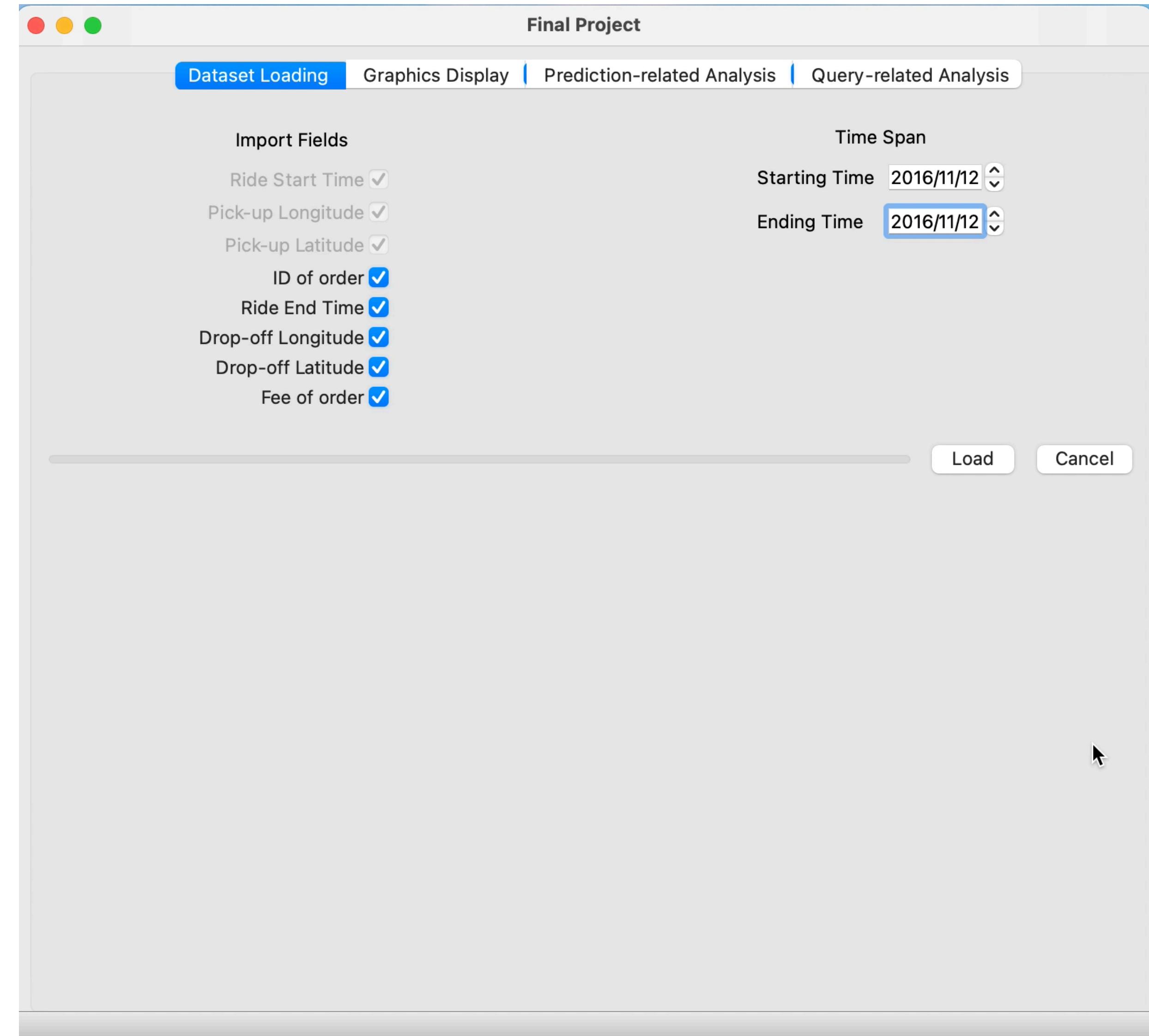
Efficient Dataset Loading

- Multi-thread technique
- Lazy loading technique



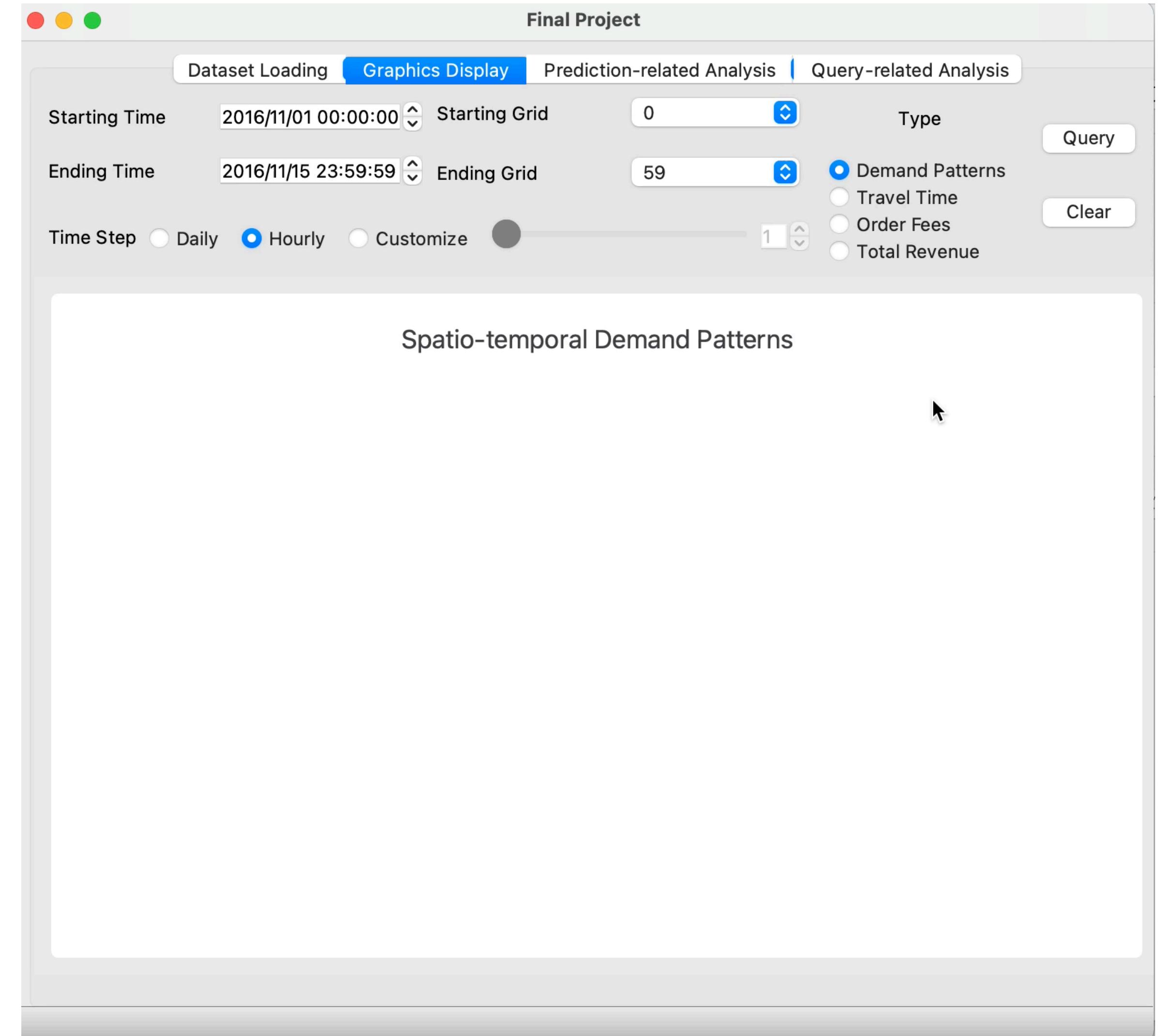
Efficient Dataset Loading

- Multi-thread technique
- Lazy loading technique
- Field & Time Filter
- Sorting In Advance



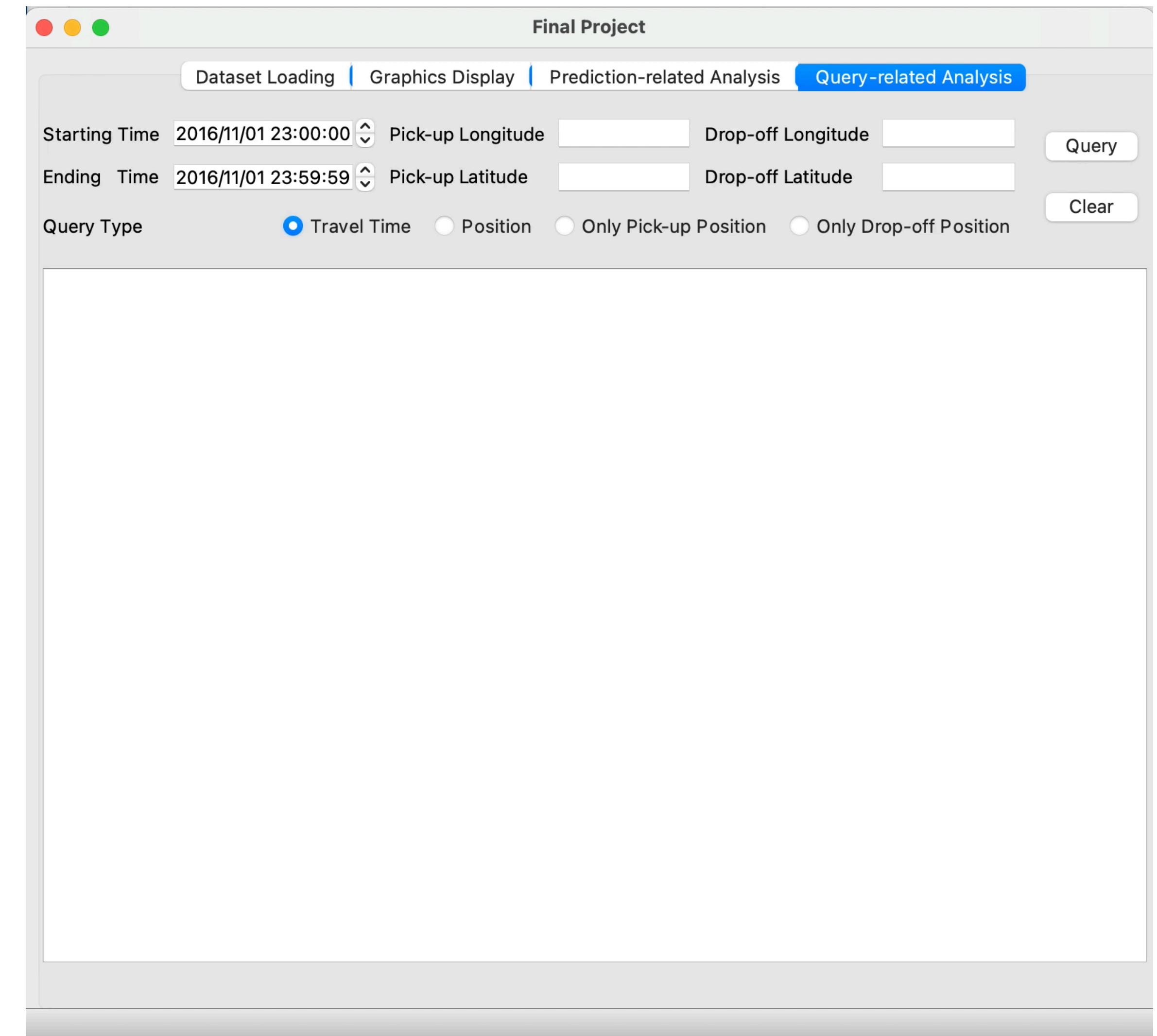
Graphics Display

- Anytime & anywhere
 - Daily, hourly, customized
- OpenGL animation
- Interpolation
- Line Chart & pie chart



Query-related Analysis

- Return Top 100 orders
- Query type:
 - Travel Time
 - Position
 - Only Pick-up Position
 - Only Drop-off Position



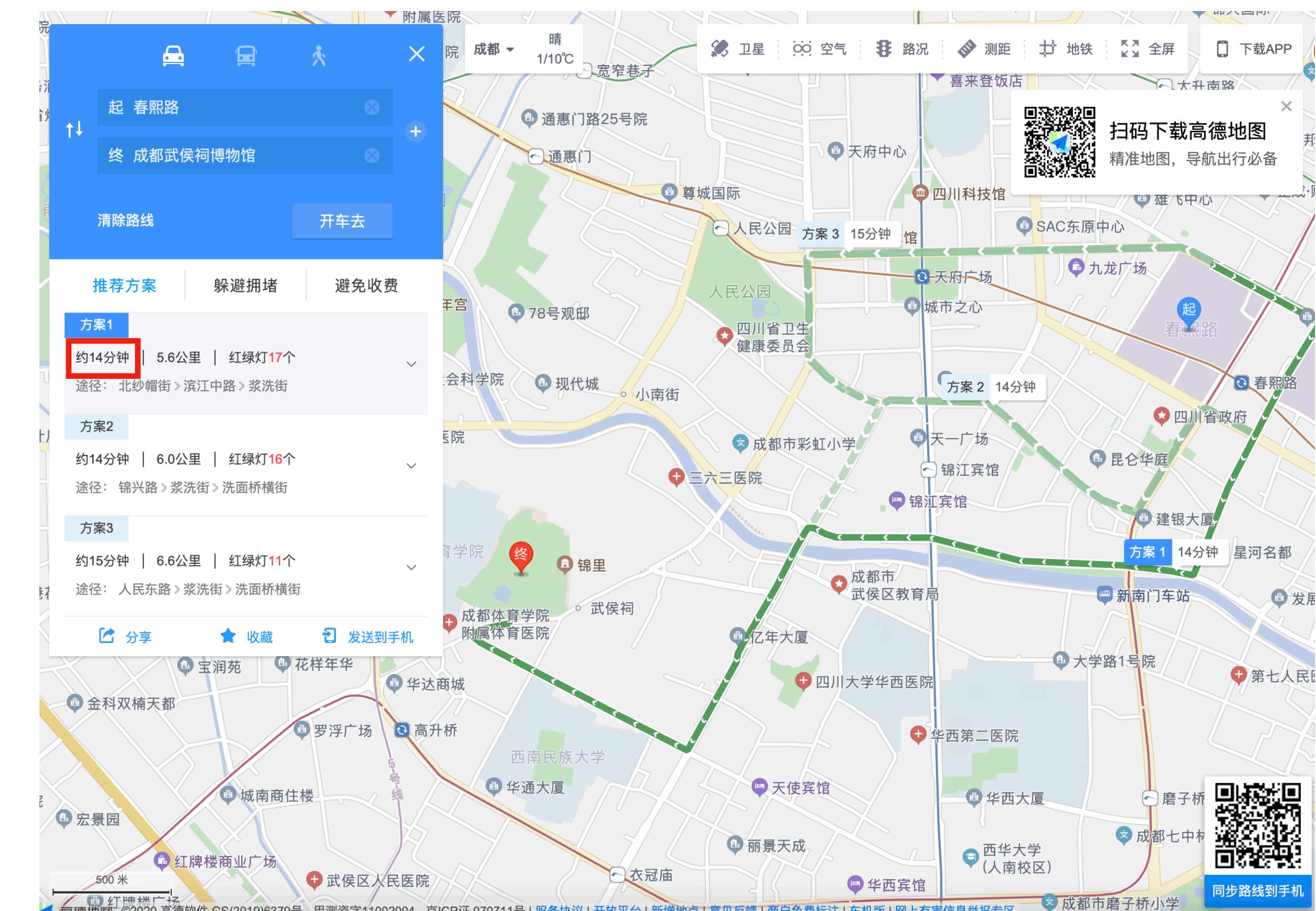
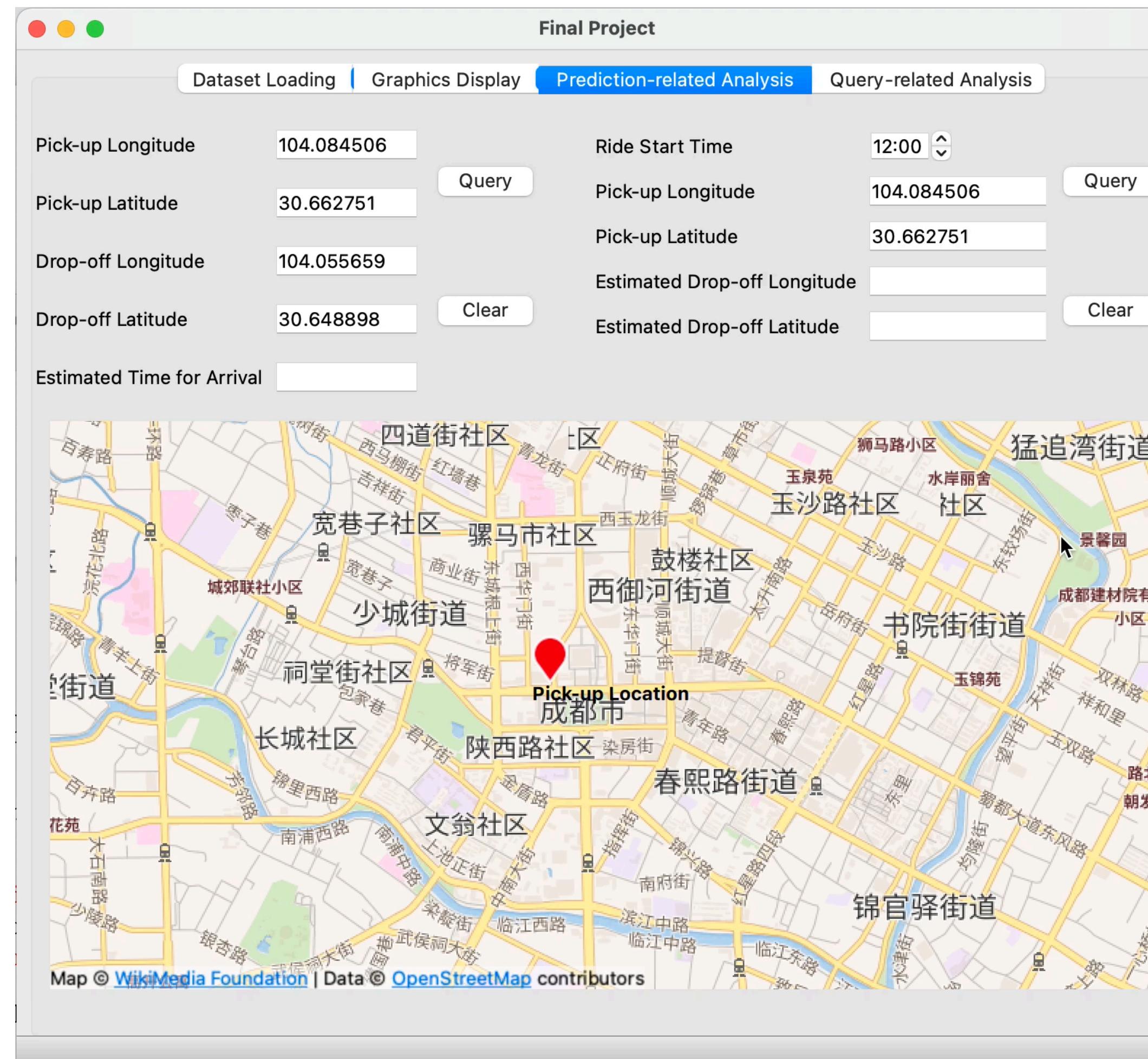
Prediction-related Analysis

- Based on historical data
- kNN (k-nearest neighbor algorithm)
- QML map integration
- Great accuracy

Prediction-related Analysis



Prediction-related Analysis



Thanks for Watching

519021910913 黃喆敏