

Chicago Ridehail Charts - Algorithmic Pricing

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1 Introduction

This set of charts uses the Chicago *Trips* data set to check monthly trends. To make the analysis more tractable, it uses the trips on the first Thursday of each month as representative of the whole month. For information about the data sets, see [Dashboards home page](#).

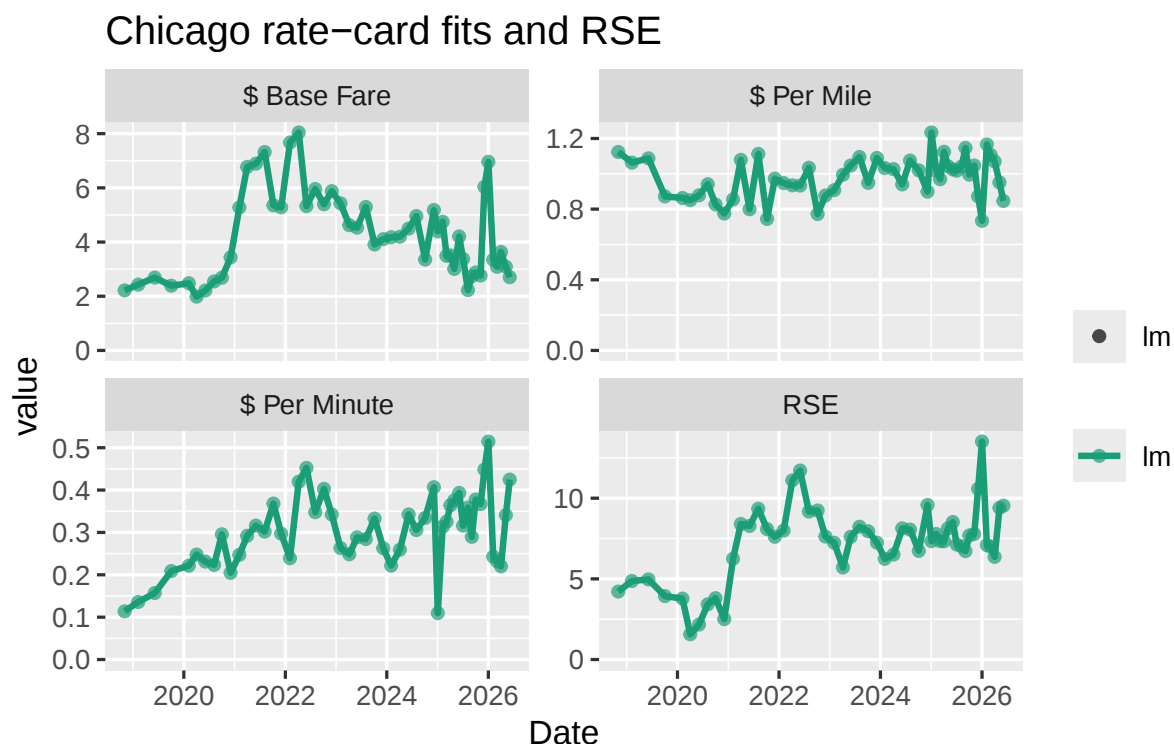
It hopes to capture both sudden changes and continuing trends in the overall ridehail landscape in Chicago. The data set does not include earnings data or driver time spent en route to pick up passengers or waiting for a trip request.

2 Algorithmic fares

Fares and earnings were originally set using a “rate card” model of a base fare plus per-minute and per-mile rates, sometimes with a surge pricing multiplier. With the introduction of “upfront pricing”, Uber can set prices individually for trips, based on many factors.

One way to look at algorithmic fares is to fit the fares for a given month to a “rate card” model and then to look at the deviation from that model, which is the “Residual Standard Error” (RSE) of the fit. A larger RSE means that the individualized (per-trip) algorithmic components have a bigger impact on the passenger fare.

The [equivalent Toronto chart](#) fits the same model, but in dollars per kilometre and on hourly cell averages rather than individual trips, so neither the coefficients nor the RSE can be compared directly across the two cities.



2.1 Community Area-based deviations

Although we cannot unpick all the factors that shape Uber’s pricing algorithm, Figure 1 shows how the fare for trips starting in each community area deviates from the

best “rate card” fit for the month. [The equivalent Toronto chart](#) does the same by ward.

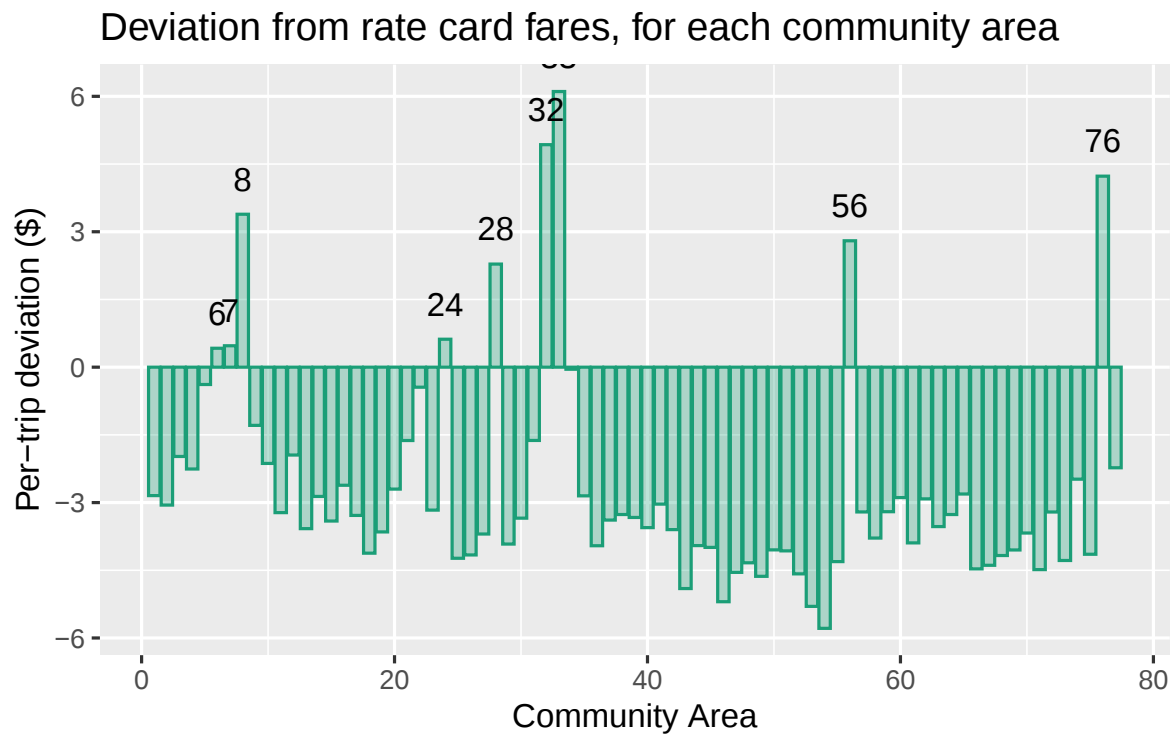
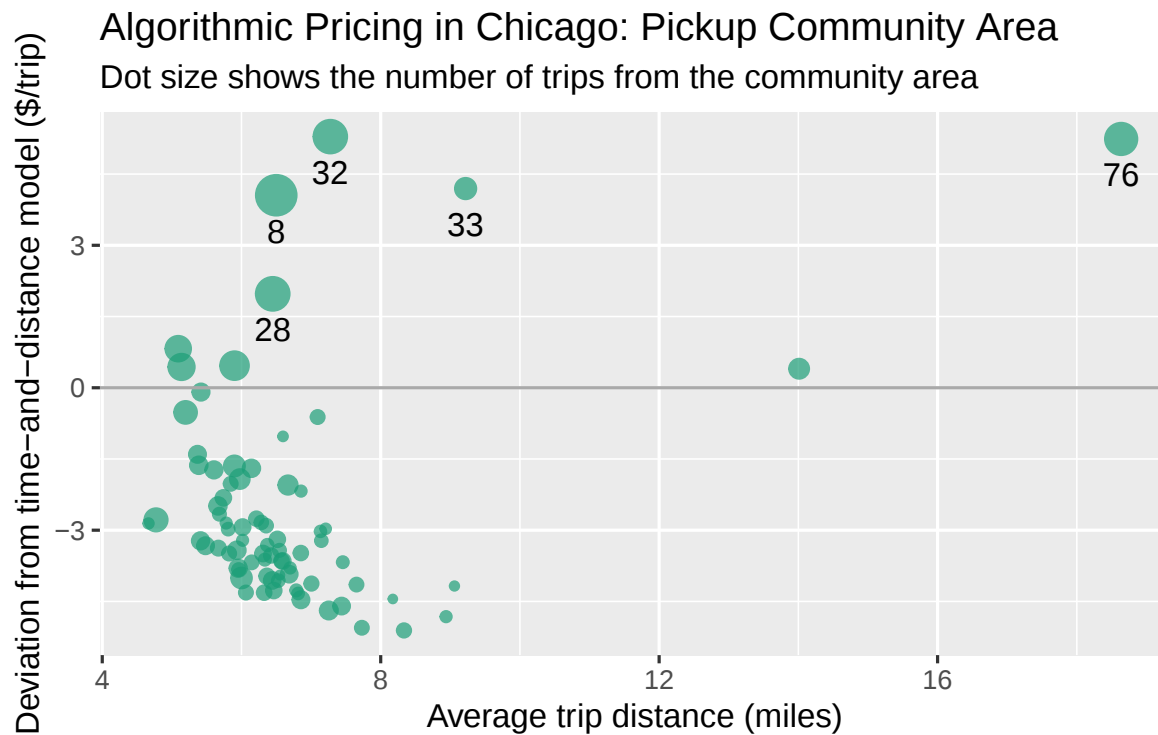
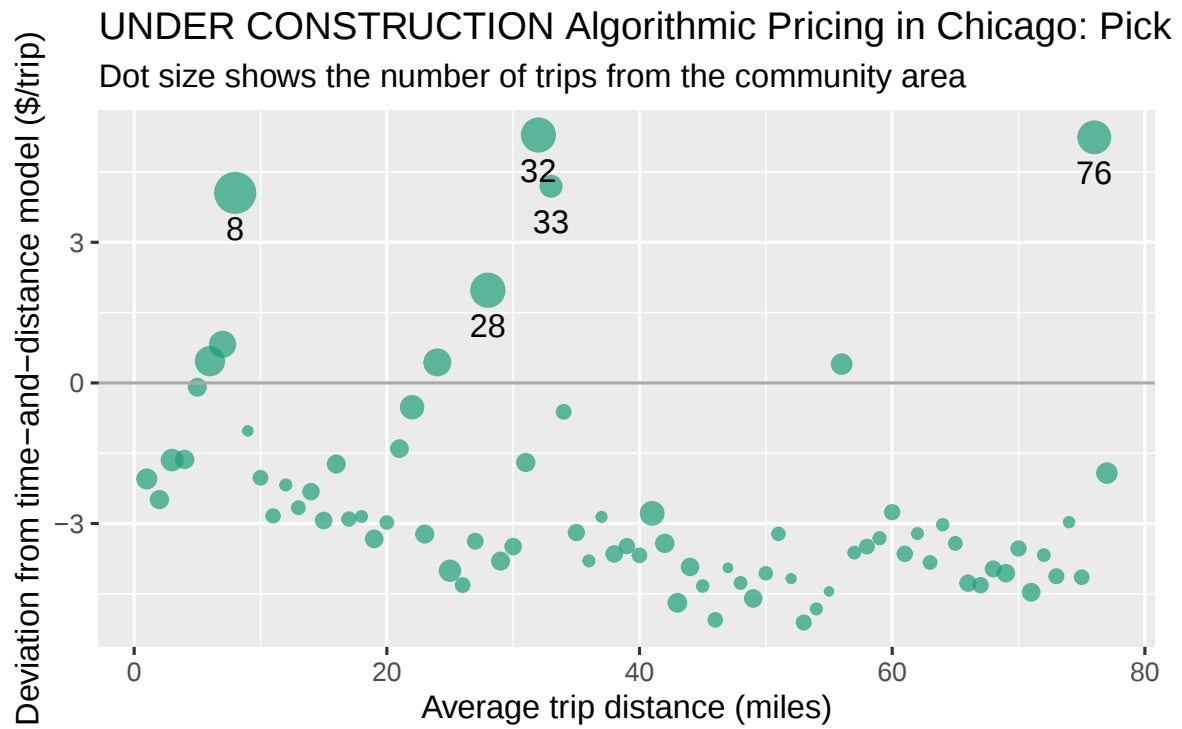


Figure 1: Per-trip deviation from the month’s rate-card fit, by pickup community area

2.1.1 Community Area deviation from model (per trip)

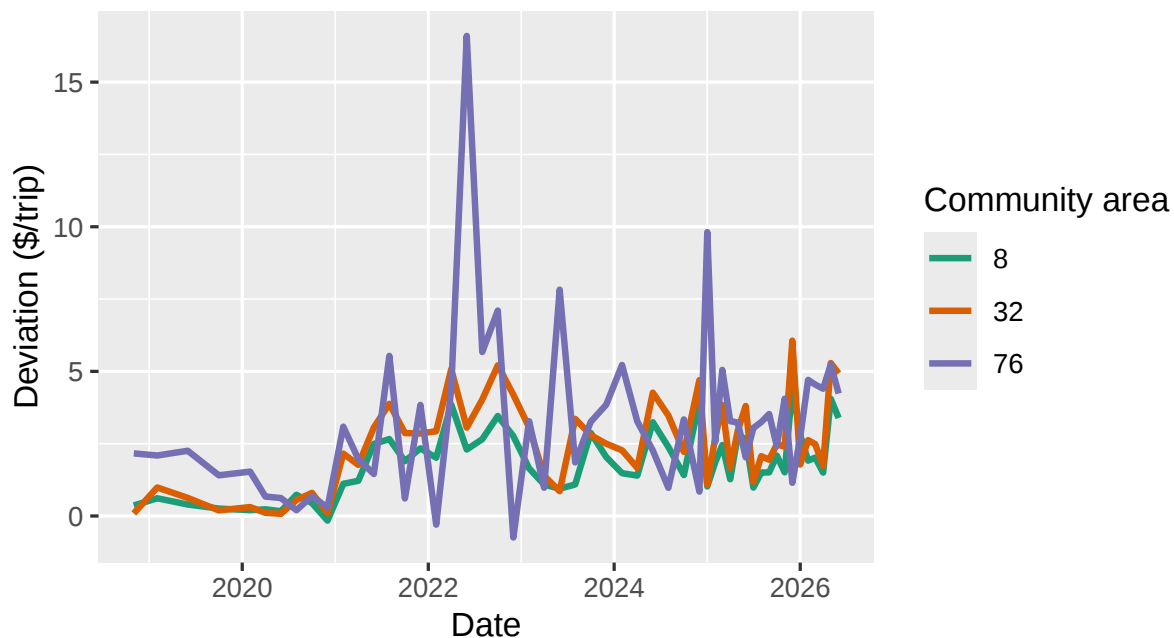


2.1.2 Community Area deviation from model (per mile)



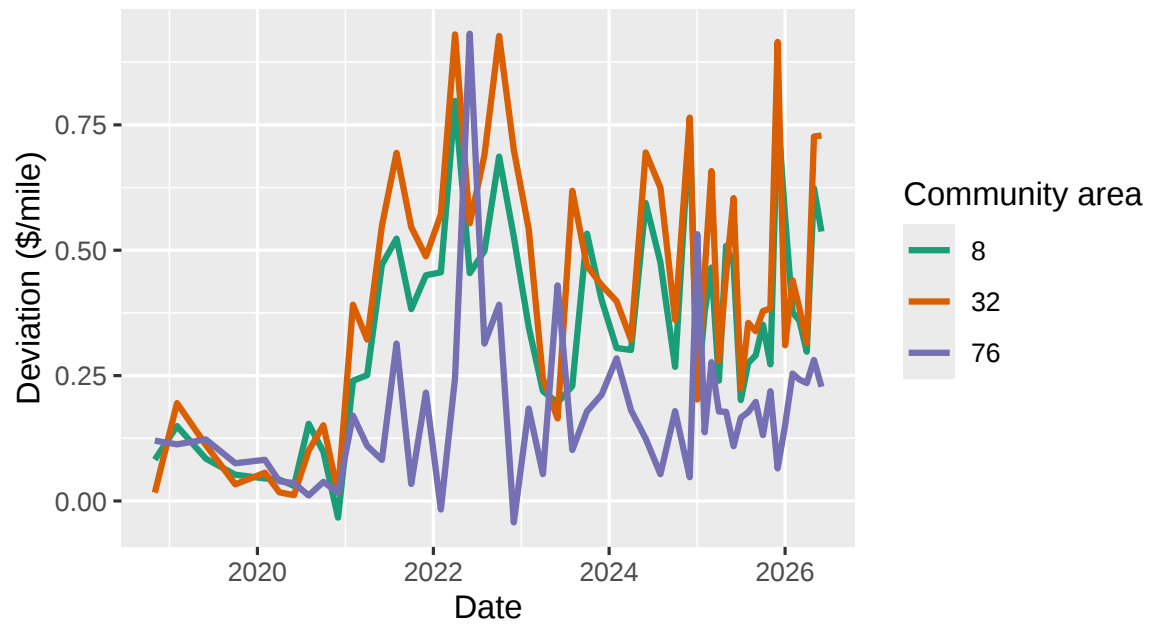
2.1.3 O'Hare and others over time

Deviation from time-and-distance fares, by community area
Shows selected high-price community areas



2.1.4 Deviation per mile from model

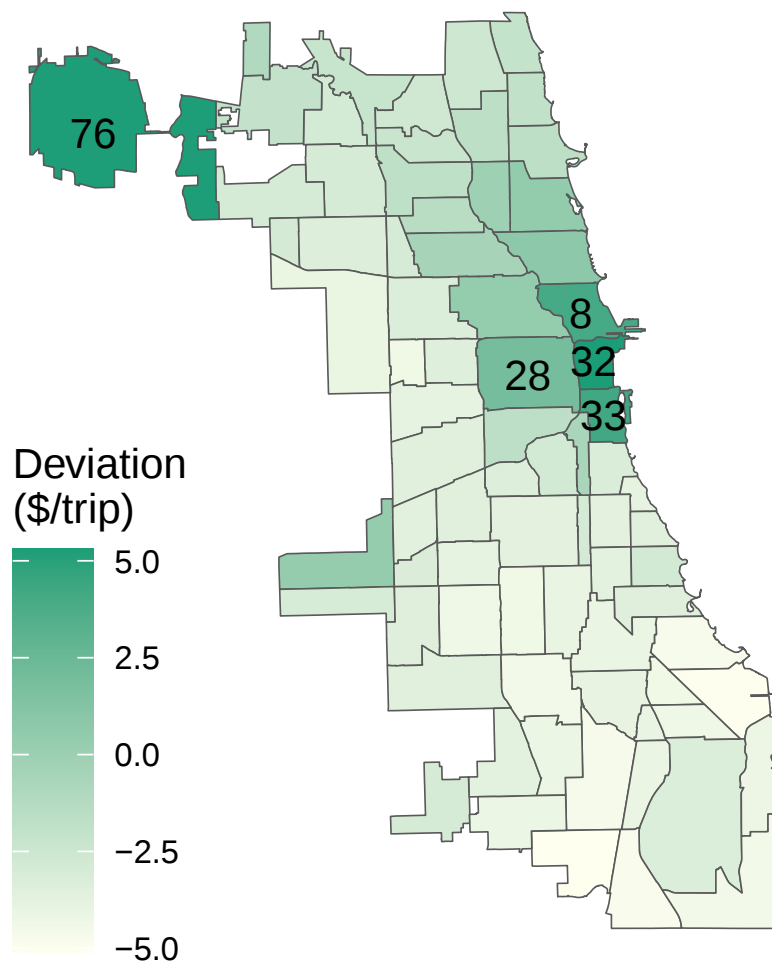
Deviation from time-and-distance fares (per mile), by commu
Shows selected high-price community areas



2.1.5 Community area map

Average deviation from best fit time & distance fare

Trips categorized by pickup community area



2.1.6 Hour-of-day dependence (rush hour surge)

The “deviation” plot shows that rush hours are charged extra over the model average. The “deviation_scale” plot multiplies deviation by the number of trips, which is also high, so rush hours bring in a lot of income.

Time of day dependence for 2026-5

