## TEAM 9

# REAL TIME PREDICTION FOR TAXI TRIP DURATIONS USING aws

BUSINESS PROBLEM



CAB SCHEDULING ISSUES



NO ESTIMATE OF PEAK-HOURS



**INACCURATE SURGE PRICING** 

We Utilized over 200 million records from New York City Open-Source Taxi data to build Machine learning models for predicting real-time trip durations in streaming fashion.



Uber Experiments
Suggest Trip duration
affects both
Customer and Driver
Experience.



14% increase in average weekly driver revenues with Accurate Surge Pricing.

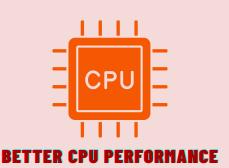




BEST IN NETWORK LATENCY



**COST EFFICIENT** 



### **TECHNICAL ARCHITECTURE**



### **INDUSTRY APPLICATIONS**









OVERTAKE DURATION PREDICTION- RACING

ACCURATE DELIVERY TIMES IDENTIFY PATIENT DETERIORATION

EFFICIENT TIME ESTIMATION IN SUPPLY CHAIN

#### **BUSINESS**

Enhanced Customer and Driver Experience

Better trip estimations, thus no wasted resources

No Overtime for Drivers due to Peak Time Prediction



Simplified Dynamic Pricing Strategies

Real Time Dashboards & Geospatial
Visualisations

**Improved Business Operations** 

TEAM 9

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