

# getaround

Discover the new way to rent a car



# Business Challenge & Product Objectives

## ❖ Getaround's Challenge



When a car is returned **late**, it directly **affects the next rental**.

The next driver may have to wait, report the issue, or cancel — which hurts **customer satisfaction** and **platform reliability**.

## ❖ Goal of the analysis



Help Product Managers decide:

1. What **minimum buffer time** should be enforced between two rentals
2. Whether this rule should apply to **all cars or only Connect cars**

# Machine Learning Model & API Deployment

## ❖ Machine Learning Model - Random Forest

- Predicts **daily rental price** from car characteristics
- 13 raw features → 55 encoded features
- Tracked and validated with **MLflow**

## ❖ API Deployment on Hugging Face

- FastAPI endpoint **POST /predict** returning price predictions
- Includes /docs + /swagger for testing
- Containerized using **Docker** for reproducibility

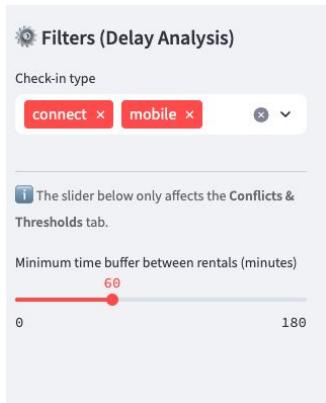
## ❖ Workflow Overview

Model training → MLflow tracking → joblib model → FastAPI → Docker → Hugging Face

# Live Demo – Exploring the Getaround Dashboard

The dashboard deployed on Hugging Face allows Product Managers to **explore delays, conflicts, minimum buffer time and pricing predictions** from the machine learning model.

 App URL: <https://andreea73-getaround-delay-pricing-dashboard.hf.space/>



Filters (Delay Analysis)

Check-in type

connect × mobile ×

The slider below only affects the Conflicts & Thresholds tab.

Minimum time buffer between rentals (minutes)

60

0 180

## getaround

### Delay & Pricing Dashboard

This dashboard has two main objectives:

1. Delay analysis – understand late checkouts and their impact on back-to-back rentals.
2. Pricing prediction – estimate a daily rental price based on car features.

Total rentals

21 310

Total cars

8143

Chain rentals (<12h gap)

1476 (6.9%)

Actual conflicts

172

0.81% overall 11.7% on chains



Thank you for your attention  
– any questions?

