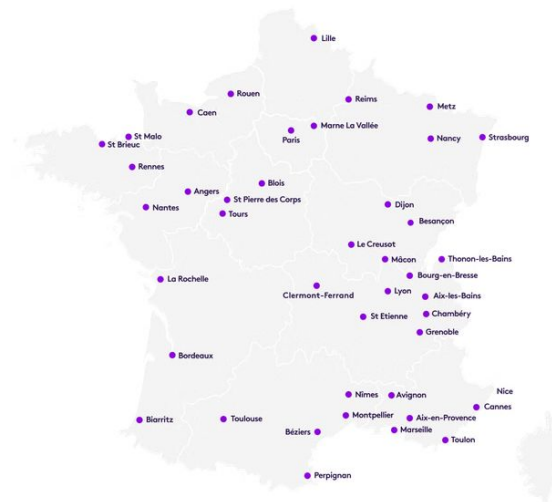


getaround

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 x

mobile x

x v

 The slider below only affects the Conflicts & Thresholds tab.

Minimum time buffer between rentals (minutes)

0

60

180

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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

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Thank you for your attention
– any questions?

