Machine Learning in the Frontend of Booking.com

4e Montreux International Tourismus Forum

08/11/2023

Dennis Bohle - Fellow Scientist in Machine Learning



232M+ verified guest reviews

in **46** languages and dialects Since 2010, Booking.com has welcomed



guest arrivals

28M total reported listings worldwide

6.6M

options in homes, apartments and other unique places to stay **155,000** destinations around the world

Car hire available in **140+** countries and pre-booked taxis in over **500** cities across **120+** countries

30 different types of

places to stay,

including homes, apartments, B&Bs, hostels, farm stays, bungalows, even boats, igloos and treehouses

14,000+ Employees, ~400 working in Al

Machine Learning @ Booking.com





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10,000,000,000 predictions per day 300+ live ML models

Al is being applied in more and more processes and products - Impacting all departments at Booking.com

How AI helps to deliver a better customer experience



Product

Default Ranking Similar Accommodations Click History Product Types

Destinations

Plain Recommendations Autocomplete Similar Destinations Multi-city Trip Destinations Nearby Destinations



Dates

Alternative Dates No Dates Available Dates



More Filters Discounts Room Types Reasoning





Where to go next?





The next city to visit



Al Trip Planner





Introducing a new AI trip planner

Making it easier to travel the world with our new AI trip planner

- A new way to search, explore and book
- Built on Booking.com's machine learning expertise
- More tailored and relevant travel recommendations providing travelers with customised trip itineraries
- Integrated travel planning experience
- Launched to a selection of US Genius travellers with plans to scale globally.





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Booking.com