HSLU Hochschule Luzern

Lucern University of Applied Sciences and Arts
Hochschule Luzern - Technik & Architektur

Bachelor-Thesis Wirtschaftsinenieur | Innovation

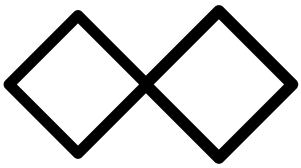
Improvement of Delay Predictions at Lufthansa CityLine - Yannick Roos

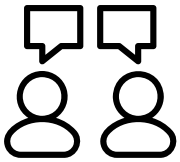
Purpose

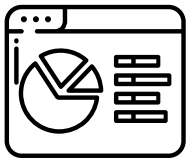
The airline industry, a critical component of global connectivity, operates at the intersection of technology, logistics, and human expertise. This project delves into the intricate mechanisms that govern airline operations, focusing on the multifaceted nature of the industry and the paramount importance of punctuality.

Airlines vying for passenger loyalty recognize that punctuality is a powerful differentiator. A carrier known for on-time performance gains trust. Conversely, repeated delays tarnish reputation and drive customers elsewhere.

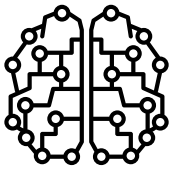
Used Competencies


Project management


Interviews


Data analysis


Predictive Analytics


Machine Learning

The project revolved around data analysis and predictive analytics. To understand the importance of the data, expert interviews were conducted and, with the aid of machine learning, a strategy for future usage of predictive analytics was created.

Result

Demonstrating the viability of machine learning for improving delay predictions, this project underscores the competitive advantage gainable through data collection, comprehension, and utilization.

Industrialpartner:

Lufthansa CityLine GmbH
Flughafen München, FOC
Südallee 15, D-85356 München

Lufthansa CityLine