



GROUNDSTAR MACHINE LEARNING

Data-driven improvement of planning and operational efficiency.
Pro-active assessment of upcoming situations using forecasts.
Efficient maintenance of business rules.
Sustained accuracy enabled by continual learning.
Services for exploration of additional use cases.

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With a distinctive Hybrid AI approach, blending knowledge-based and data-driven Artificial Intelligence, INFORM leverages multiple disciplines to provide customers with a significant competitive advantage through digital decision making.

GroundStar, INFORM's family of solutions for the optimization of aviation processes, implements Hybrid AI for its aviation customers. GroundStar particularly enhances the integration of Machine Learning (ML) in its products to support the operational phase.

Application areas include the prediction of flight-related measures and the projection of process performance as key input for GroundStar's optimization logic, along with providing recommendations for enhanced decision support of its users.

Predictions are based on models which are continually trained on historical data retrieved from processes

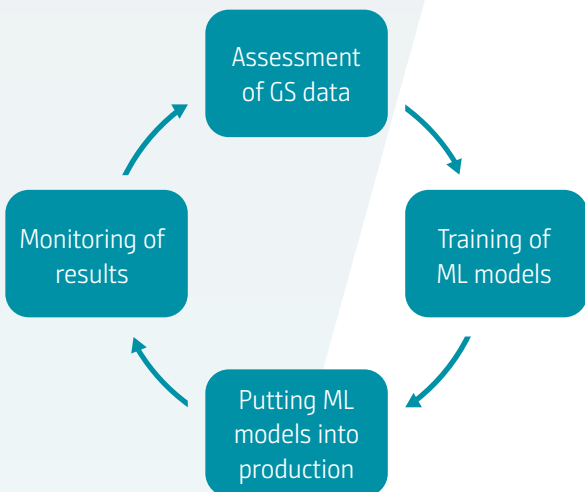
managed by GroundStar. To ensure meaningful results, these predictions are benchmarked considering measures like accuracy levels. If additional data are useful for further improving the model for certain use cases, data sources outside of GroundStar can be considered.

Machine Learning in GroundStar focuses on the following initial use cases:

- Prediction of passengers by flight and cabin class
- Prediction of task durations
- Prediction of aircraft parking positions

Beyond that, we are closely working together with our customers to include additional use cases that are most relevant to their individual operations.

Implementation Workflow and Use Cases



Passengers by flight and handling category
Level of flight delays
Number of flight crew changes
Target position of aircrafts or cargo items



Quantity of baggage pieces
Time of first bag on belt



Quantity and duration of tasks
Duration of processes
Fuel amounts and fueling duration
... and many more

Contact data

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