Dataflow ETL, ML and Analytics in Power BI



Daniel Roca

Business Intelligence



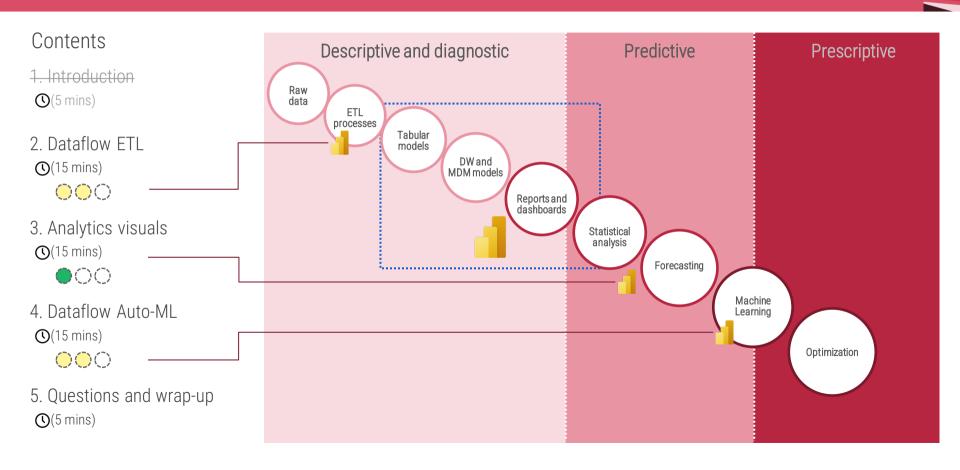
Data Analytics Enthusiast

Data Scientist, Analytics Consultant, BI Developer

Microsoft Certified: Data Analyst (DA-100)

Analytics roadmap

Introduction



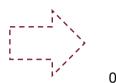
















01 Understand the data

I would like to have the data consolidated and understand the behavior of the flights in the previous year.

02 Delay causes

I want to understand the root causes of flight delays to give better advices to my clients.

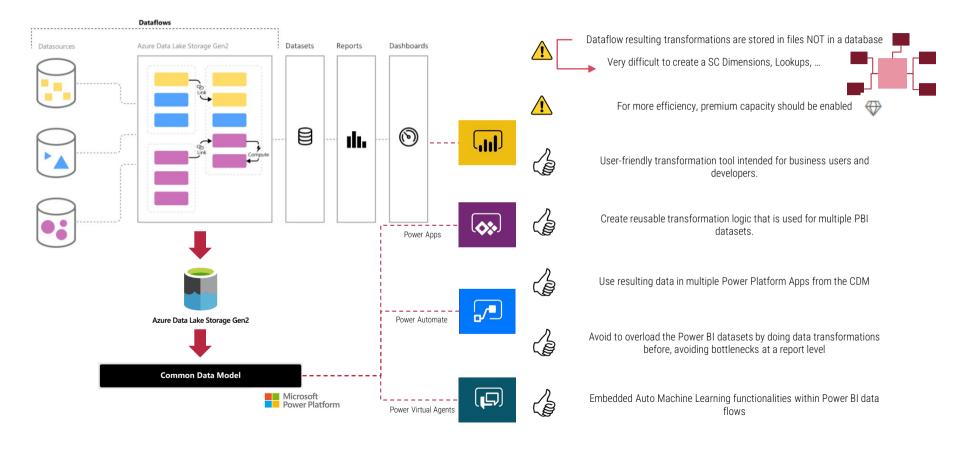
03Better assess clients

I'd love to tell my clients which flight should they take based on the minimum probability of delay.

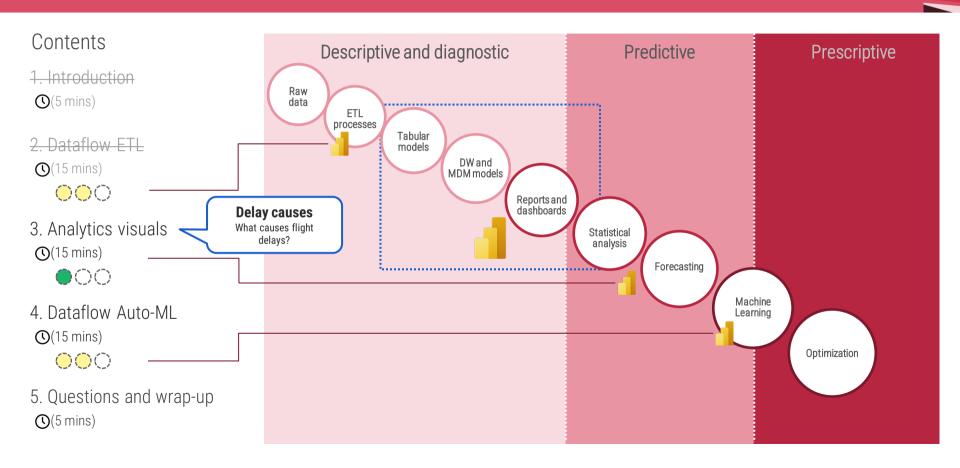
** data based on sample from: kaggle.com/usdot/flight-delays

Key takeaways

Dataflow ETL

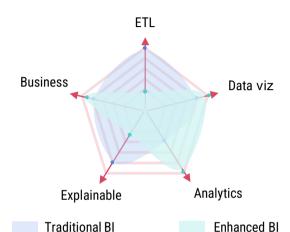


Questions and wrap-up



Key takeaways

Analytics visuals



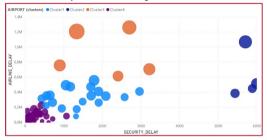
Decomposition tree visual

Statistics - Multivariate analysis



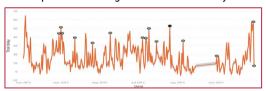
Clusters with a scatter plot

ML - Non supervised learning



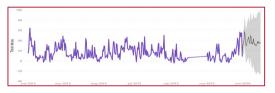
Line chart visual

ML Supervised learning - Time series anomaly detection



Line chart visual

Statistics - Time series forecasting



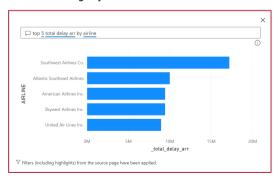
Key influencers visual

ML Supervised learning – Regression algorithms

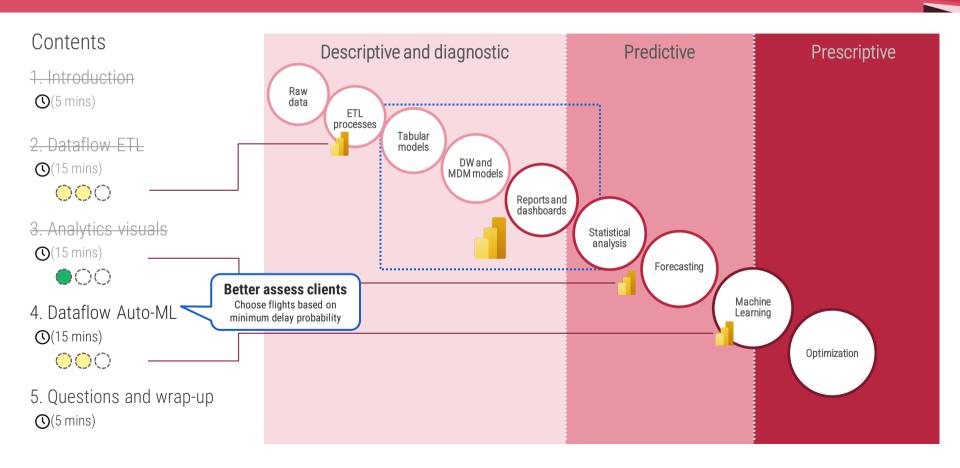


Q&A visual

Al Text Mining - Synsets



Questions and wrap-up



Key takeaways

Dataflow Auto-ML



Questions and wrap-up

