Monetize

PREDICTIVE ANALYTICS MODELING

A Large Australian Airlines

THE CLIENT PROBLEM STATEMENT

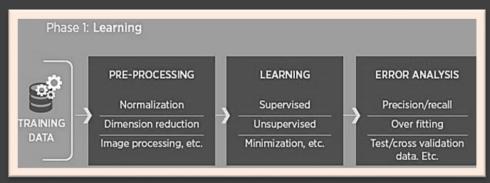
Client wanted to test and build an innovative proof of concept to see how machine learning and analytics can help to predict crew absenteeism for better disruption management

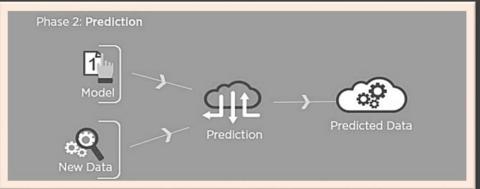




SOLUTION 💢

 It is the machine learning based approach for predicting the absence of crew before the roster planning exercise by leveraging several internal and external parameters such as age, holiday, weather, historical leave patterns, fly duty details etc.





CREW LEAVES PREDICTION



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	tal Crew 1011
	01	02	03	04	05	06	
	20	20	19	19	19	19	
	26	24	25	23	22	20	
07	08	09	10	11	12	13	P
19	18	18	18	18	17	17	Ac
20	18	18	18	18	19	19	
14	15	16	17	18	19	20	
17	17	17	17	17	17	17	
18	17	17	17	18	18	18	
21	22	23	24	25	26	27	
17	17	16	16	16	17	16	
22	21	22	20	20	18	18	
28	29	30	31				
16	16	17	17				
18	17	17	17				

BUSINESS OUTCOME



NIIT



- Better management of disruptions resulting from crew absence
- Improved roster utilization and efficiency
- Improved customer experience and operational efficiency