**Flight Delay Prediction**

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**Overview and approach**

We wanted to get following tasks before predictions.

* Hypothesis: These are the major tasks that will guide us in our machine learning process

Cancalleation\_reason is associated with start and destination airports and airline   
Delays are associated with airline and planes ( data of planes is obtained from separate data source )   
Diversions can be associated with destination and condition( data of conditions isn't available )

* Insights: These are mini-tasks that i want to check

All airlines with their cancellation reasons in sorted order   
All airlines with their delay types in sorted order   
All airlines and their diversion   
A ranking function for airlines that considers scores of airline's flight delay, diversion and cancellation

### Birdeye view of Flights data

1. We studied the relationship of airlines & airports with 3-Bad things( diversion, cancellation and delays )
2. After that we did overall relative ratings of an airline and created a ranking function by giving a ranking of Best, Good and Bad