**Topic**

Who is going to cancel the reservation?

**Dataset**

**Dataset selected:** Hotel Reservation Dataset Data source: <https://www.kaggle.com/datasets/ahsan81/hotel-reservations-classification-dataset> Description of the dataset: This dataset of size n=36276 contains booking information of hotel customers.

**Problem statement**

Problem overview: Life can be very unpredictable, resulting in the cancellation of hotel reservations and, in the worst-case scenario of, people not showing up for the day. A research question: Is it possible to predict which reservation will be cancelled?

**Related research papers:**

1. <https://ieeexplore.ieee.org/document/9299011>
2. <https://ieeexplore.ieee.org/document/8607679>
3. <https://ieeexplore.ieee.org/document/9392648>
4. <https://ieeexplore.ieee.org/document/9742843>
5. <https://www.atlantis-press.com/proceedings/icfied-22/125971599>

**Techniques/algorithms**

1. KNN
2. Random Forest
3. PCA