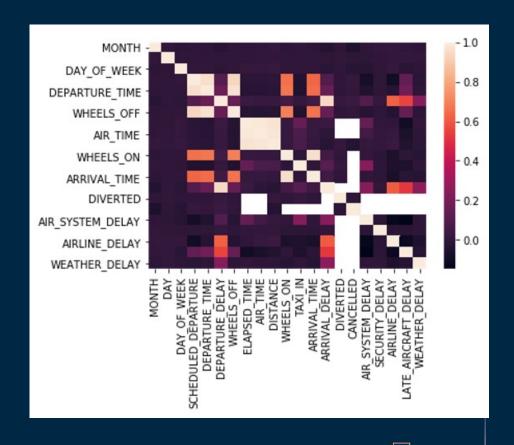
Another Delay?! Using KNN to predict departure times Akshar Shrivats IB Computer Science HL 4B

The Data

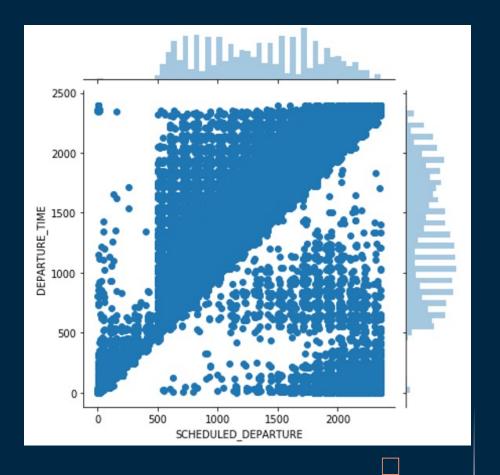
- Extremely Large
- 3 individual files
- 31 total factors
- Published by the DOT
- Fairly recent

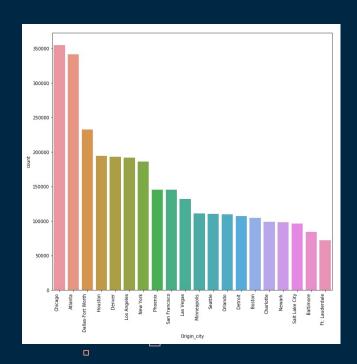


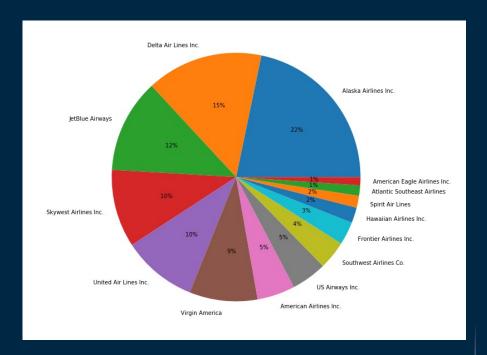
A Correlation Plot to find trends visually



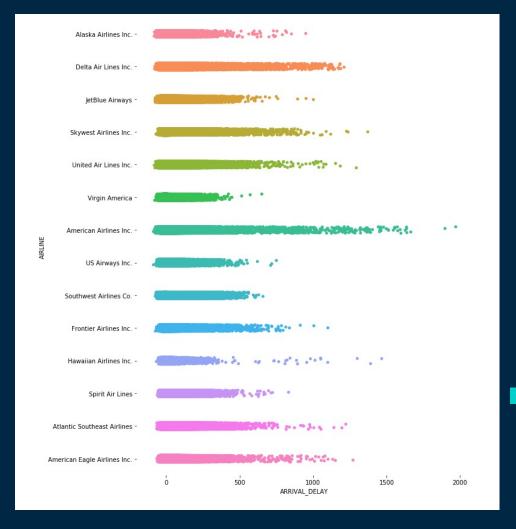
A jointplot to see if my hypothesis was valid







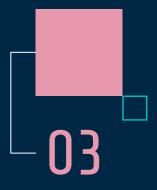
What airlines had the longest delays?



Handling the Data

Deleting the junk What factors don't matter?

Converting to Float What do we do with weird strings?

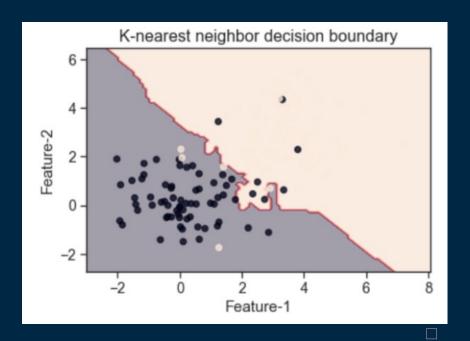


Normalizing
What stuff matters the most?

The Results

Visualizing the KNN boundaries

Unweighted Model: 88% Weighted Model: 92%



Conclusion

- Arrival Time
- Airline Delays
- Air System Issues



THANK YOU

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