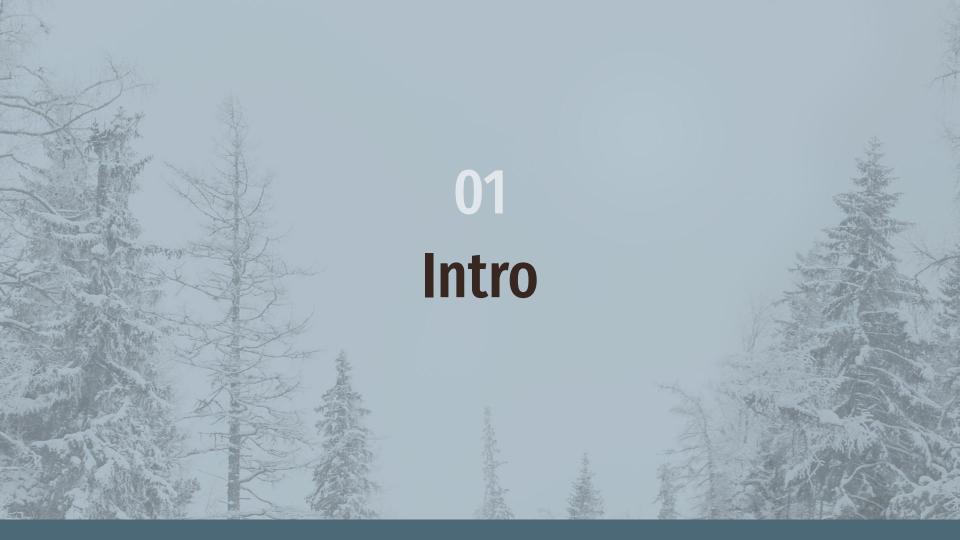


CONTENTS

- 1. Intro
- 2. Behind the scenes (tech. stuff)
- 3. Hypothesis 1
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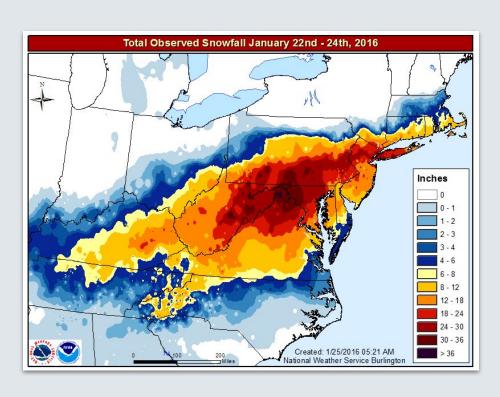


"Winter Storm Jonas (Snowzilla): combination of heavy snow and strong winds led to travel chaos and significant power outages."

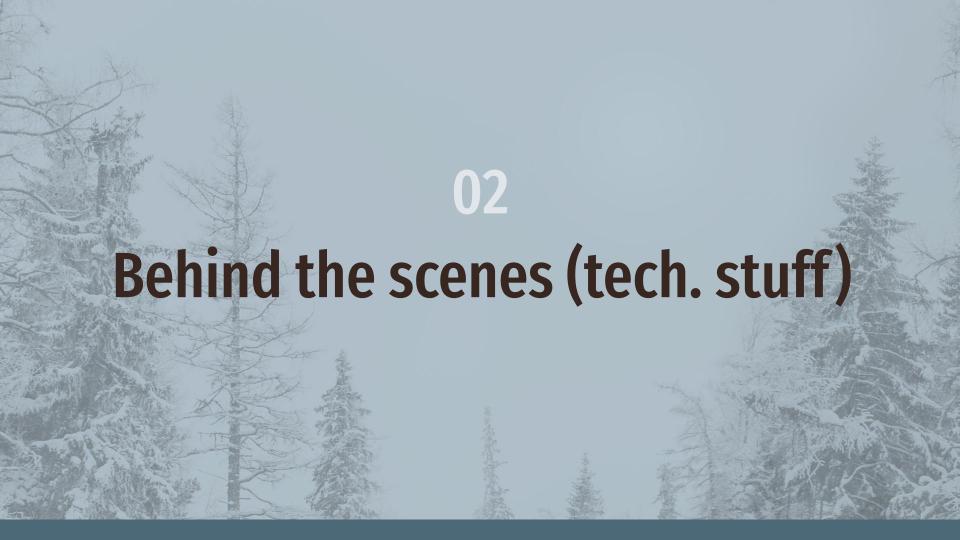
-CNN

The US east coast was heavily affected by the storm

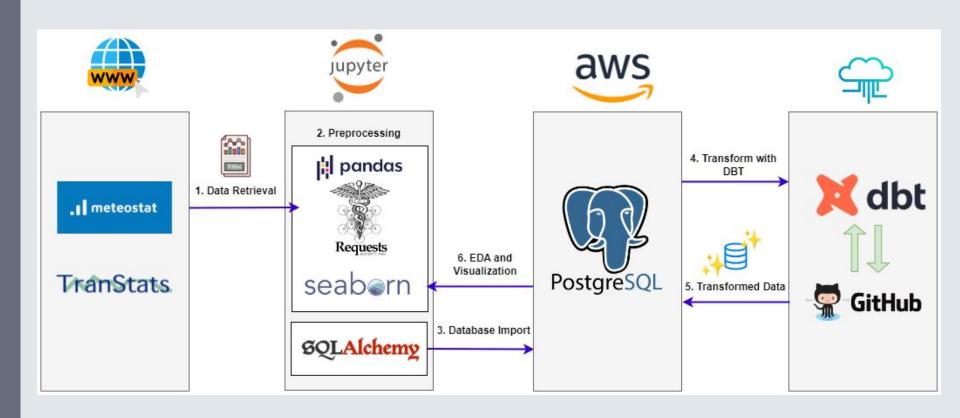
Inches of snow January 22nd - 24th, 2016

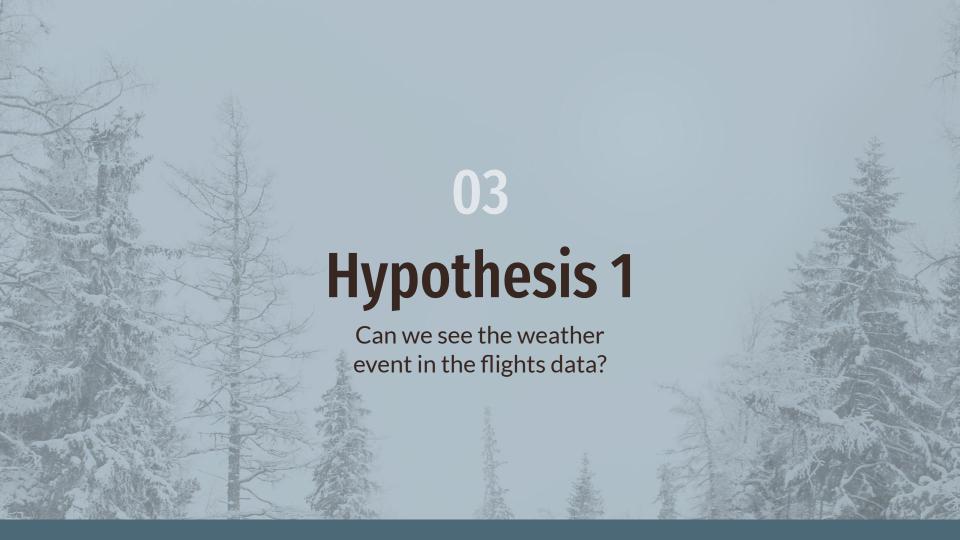






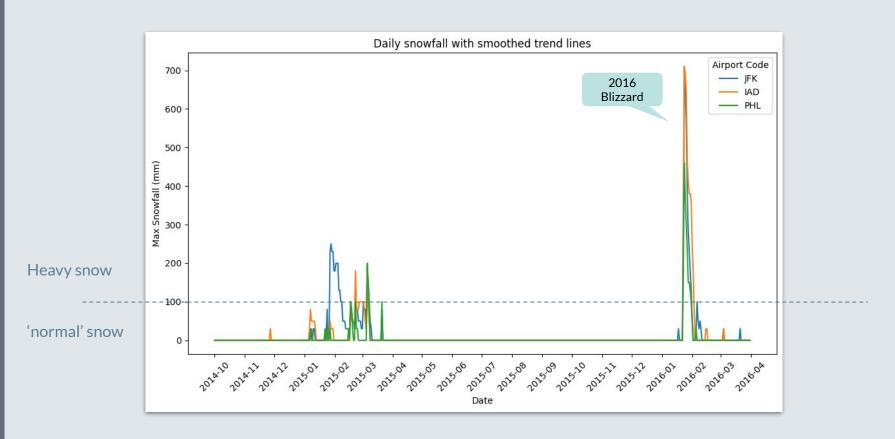
Workflow Overview





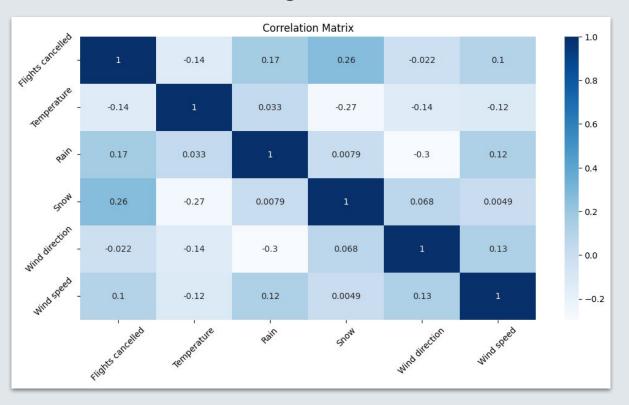
Extreme amount of snowfall during January 2016

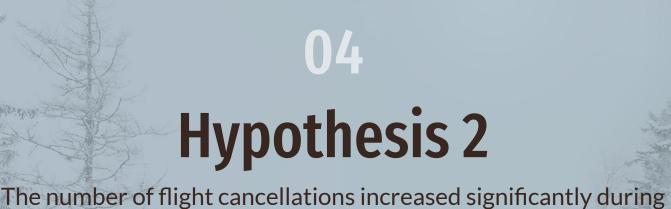
Snowfall in the winters of 2014-2016



Snow is correlated with flight cancellations, some other variables do not seem to be

Can we see the weather event in the flights data? - YES!

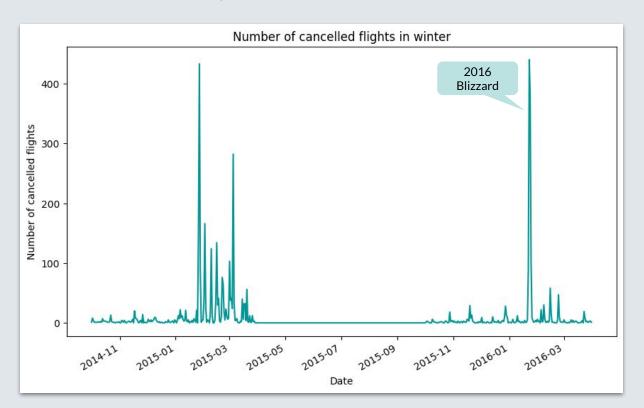




the blizzard compared to normal conditions.

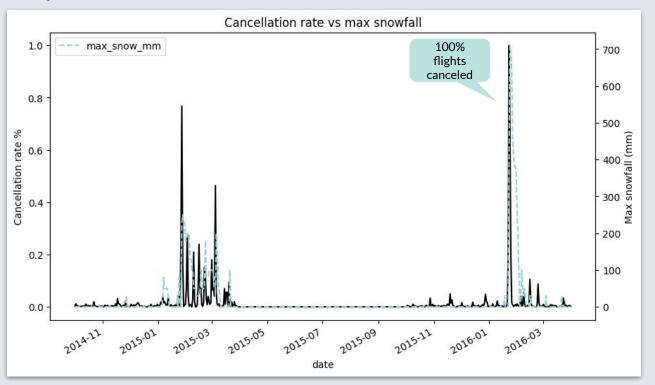
Flight cancellations over past winters

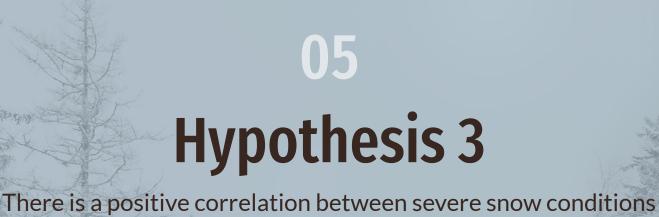
Notice the spike in cancelled flights in the previous winter. Can indicate another extreme weather event in that year



Flight cancellation rate during the snowstorm

We can confirm that the rate of flight cancellations increased during the blizzard vs other days





and the length of flight delays.

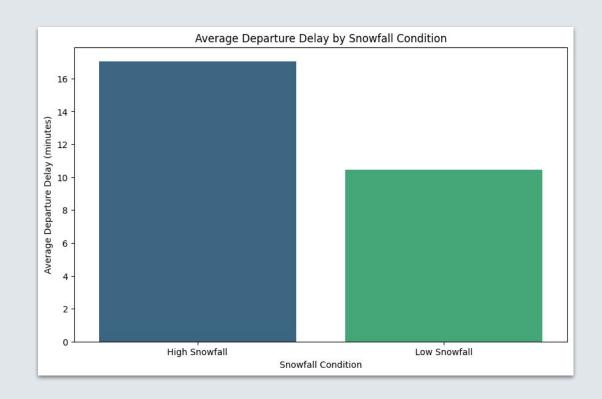
T-Test Results

Heavy Snow vs. Delays

P- value: 0.006665420358538541

Low Temperatures vs. Delays

P- value: 0.00010742217087238494



Impact of weather variables

