Title:

Portfolio Projects
Business Intelligence | Data Analytics
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Project Overview

Title: Traffic Volume Analysis Dashboard (2012–2018)

Tools Used:

- Google Cloud Console
- SQL (Data Pipelines, Data Modeling)
- Tableau

Summary:

This dashboard was built to analyze traffic volume over seven years using three key dimensions: seasonality, weather conditions, and public holidays.

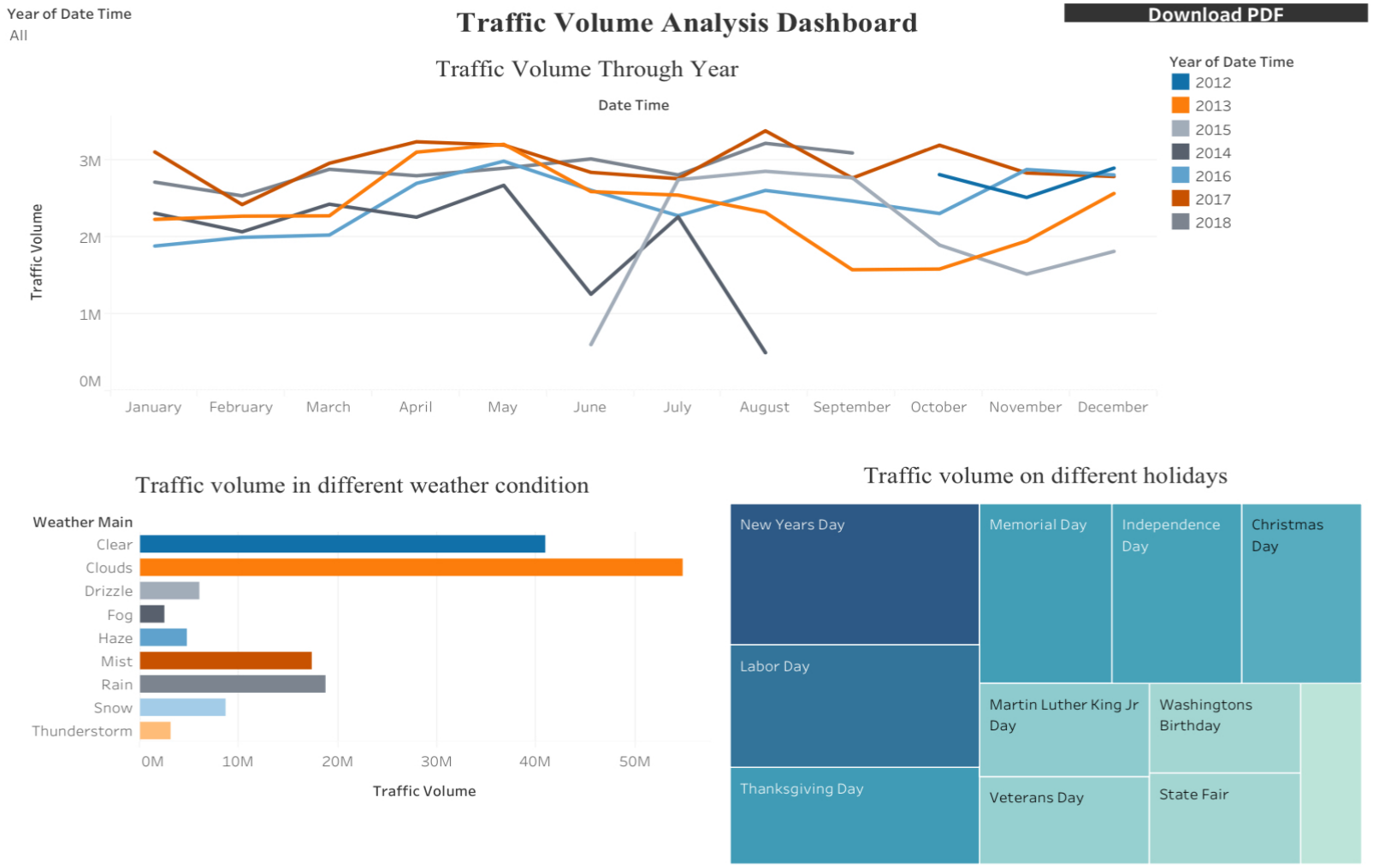
Project Objectives

- Identify monthly changes in traffic volume over the years
- Compare the impact of different weather conditions
- Understand how public holidays affect traffic levels

Key Insights & Visuals

- Line Chart: Showed yearly trends — a noticeable dip in July, possibly due to summer holidays.
- Bar Chart: Revealed that cloudy weather was associated with the highest traffic volume.
- Treemap: Highlighted that holidays like Thanksgiving and Labor Day had higher traffic compared to days like Veterans Day.

Dashboard


Year of Date Time
All
Traffic Volume Analysis Dashboard
Download PDF
Traffic Volume Through Year
Date Time
Traffic Volume
3M
2M
1M
0M
January
February
March
April
May
June
July
August
September
October
November
December
Year of Date Time
2012
2013
2015
2014
2016
2017
2018
Traffic volume in different weather condition
Weather Main
Clear
Clouds
Drizzle
Fog
Haze
Mist
Rain
Snow
Thunderstorm
0M
10M
20M
30M
40M
50M
Traffic Volume
Traffic volume on different holidays
New Years Day
Memorial Day
Independence Day
Christmas Day
Labor Day
Martin Luther King Jr Day
Washingtons Birthday
Thanksgiving Day
Veterans Day
State Fair