

F1 Monaco 2024 Data Analysis

F1-ML Pipeline

June 24, 2025

Introduction

This report provides an automated analysis of Formula 1 lap data for the Monaco 2024 Grand Prix. It includes visualizations and interpretations generated by the F1-ML pipeline.

Lap Time Distribution

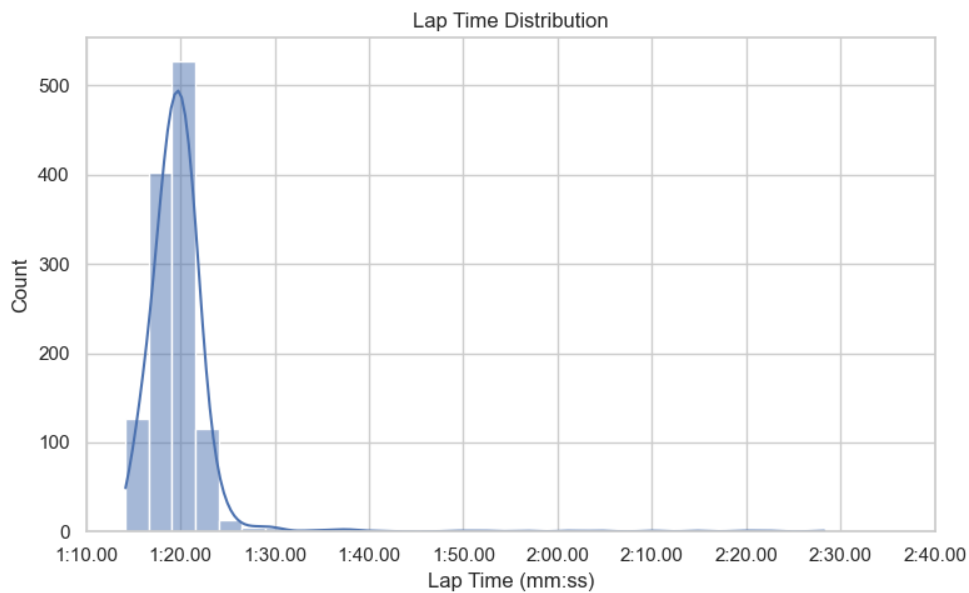


Figure 1: Lap Time Distribution

Interpretation: Most lap times cluster around the mean, with a few slower laps (possibly due to pit stops or incidents).

Lap Time vs. Position

Interpretation: Drivers in better positions (closer to 1) tend to have faster lap times, as expected. The red line shows the mean lap time for each position.

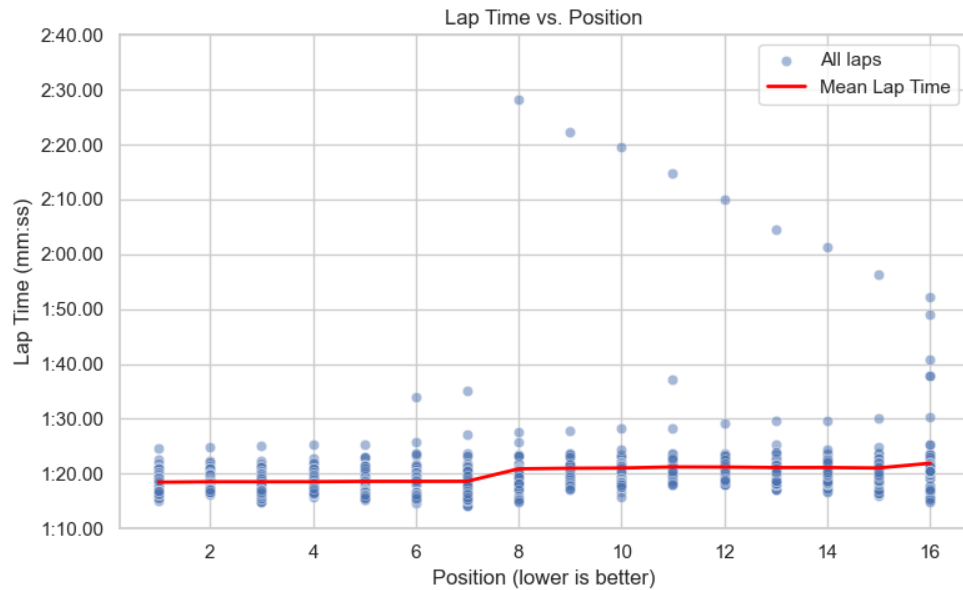


Figure 2: Lap Time vs. Position

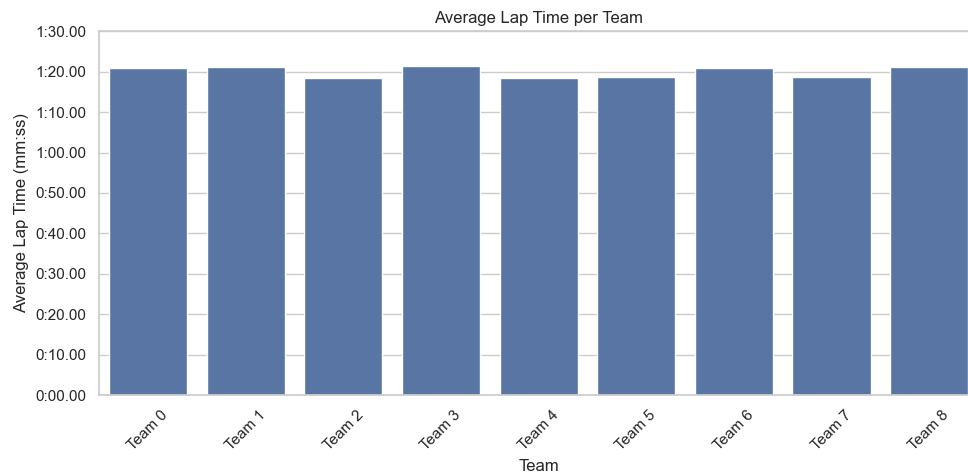


Figure 3: Average Lap Time per Team

Average Lap Time per Team

Interpretation: Teams with lower average lap times are generally more competitive. Note: Some teams may be missing due to incidents.

Lap Time Progression for 5 num16

Interpretation: This shows how lap times change for 5 num16 over the race. Dips may indicate pit stops or faster laps.

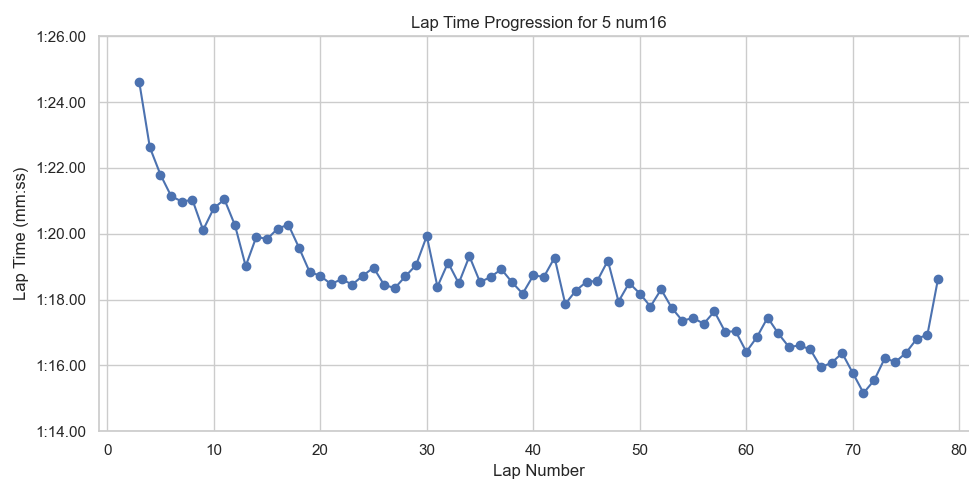


Figure 4: Lap Time Progression for 5 num16