Optimized Appliance Maintenance

With the growing usage of electrical appliances, there's been a corresponding rise in the need for maintenance.

To address this increase, maintenance companies should focus on analyzing maintenance call data. By doing so, they can gain valuable insights into the quality of spare parts used and predict the likelihood of component failures, enabling them to optimize their inventory.

Additionally, this data can help observe seasonal trends, evaluate workforce efficiency, and assess the revenue generated by the business.

A thorough analysis of customer data By Sohan Suresh



Problem Statement

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In an effort to enhance customer satisfaction and improve product reliability, our home appliance company aims to conduct a comprehensive analysis of our customer service history data. The primary objective is to identify and understand the underlying issues affecting our products, segmented by various parameters such as geographic region and warranty status.

By leveraging this data, we seek to uncover patterns and root causes of product malfunctions or failures. This insight will enable us to implement targeted improvements, thereby reducing the frequency and severity of these issues.

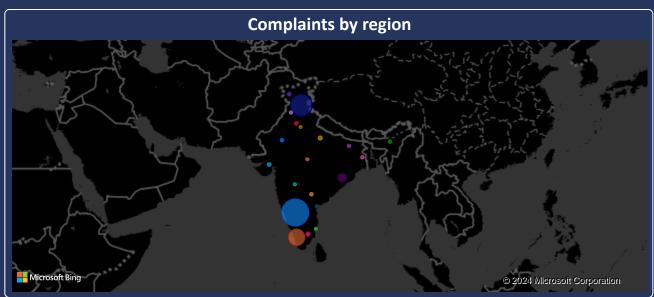
Additionally, we are tracking the performance of our service technicians. Specifically, we are analyzing the average time taken to resolve customer complaints. This analysis will help us identify areas for improvement in our service processes, leading to more efficient and effective resolutions.

The insights derived from this analysis will inform strategic decisions aimed at enhancing product quality, optimizing warranty policies, and improving the overall efficiency of our customer service operations. Ultimately, this will lead to increased customer satisfaction and loyalty, positioning our company as a leader in the home appliance industry.









7618Total Calls

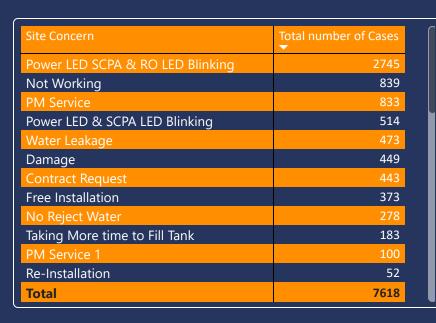
4182
Calls resolved in two hours

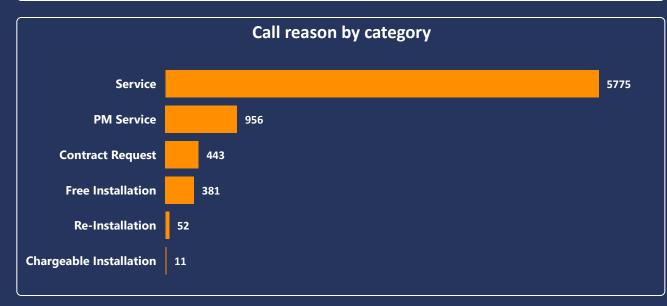
5788
Calls resolved in 24 hours

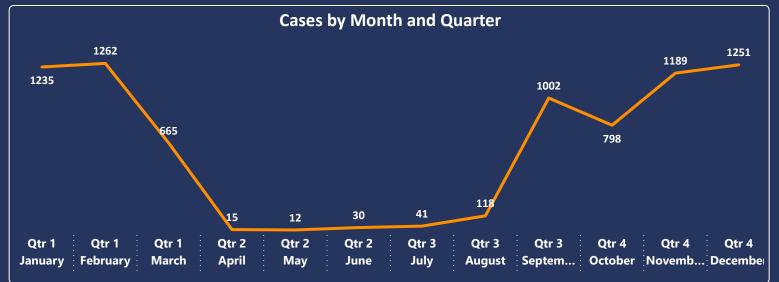
1016
Total repeat calls

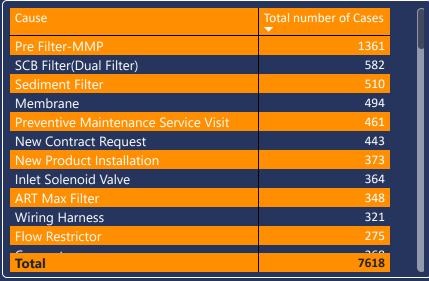
15
Calls cancelled in 48 hours

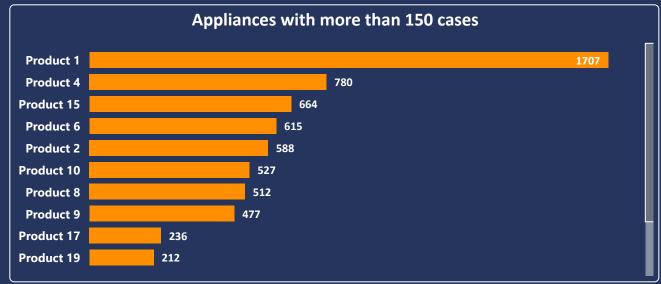
1026
Full closure of calls in 72 hours

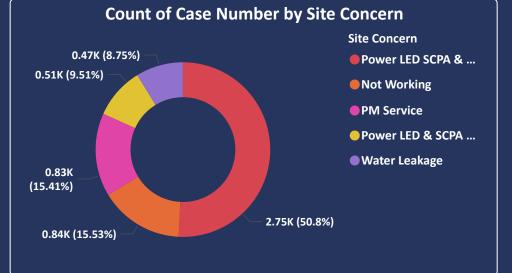


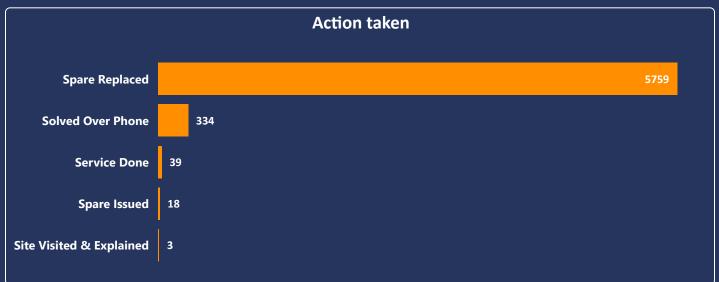
















By analyzing customer data, we can draw valuable insights regarding the appliances the company services and the maintenance packages it offers.

- 1. Notably, the majority of calls and service requests for products under warranty are related to product installation, accounting for 733 cases. This indicates that, based on our data over the past year, the product line is reliable and has a low failure rate.
- 2. Out of 7,618 service requests, 5,788 were attended to within 24 hours, achieving an impressive 76% resolution rate within this timeframe.
- 3. Product 1 represents 22.4% of the total service requests, with the most common issue being a faulty LED.
- 4. Additionally, our analysis reveals a significant decline in customer service requests from April to July.
- 5. The regions with the highest number of customer service requests are Karnataka, Kerala, and Himachal Pradesh, collectively accounting for 7,289 service requests.