**Documentation:**

1. **Algorithm Explanation**:
   * The **Z-Score method** is a basic statistical anomaly detection technique. It calculates how far a data point deviates from the mean. A point is recognized as an anomaly if it exceeds the threshold.
   * By using a sliding window, we ensure the model adapts to changing trends.
2. **Error Handling and Data Validation**:
   * We handle division by zero in cases where the standard deviation is zero.
   * Data points are continuously appended to a deque (which removes old data automatically), ensuring memory efficiency.
3. **Requirements**:
   * Libraries used: numpy, matplotlib.