Working of inventory\_dashboard\_notification.py

1. **Data Loading**:
   * The system loads data from a CSV file (analyzed\_supply\_chain\_data.csv) containing tea production, supply, and demand information.
2. **Streamlit Interface**:
   * Streamlit provides an interactive interface for users to manage inventory, select regions, and perform various actions like stocking or supplying materials.
3. **Inventory Management**:
   * The system allows users to add incoming stock to the inventory and remove outgoing stock, adjusting the available warehouse space accordingly.
   * Each incoming or outgoing action updates the inventory status and the available space in the warehouse.
4. **Risk Alerts**:
   * The system generates risk alerts based on the sentiment score from the dataset or if the available warehouse space is critically low.
   * Risk alerts are triggered if the sentiment score is below 0.50 or the available space is dangerously low.
5. **Slack Integration**:
   * Alerts are sent to a Slack channel in real time via a webhook URL, notifying stakeholders of potential risks.
6. **Filtering and Reporting**:
   * Users can filter the alerts by region and month to focus on specific areas of concern in the supply chain.
7. **Save Inventory**:
   * The current inventory status can be saved to a new CSV file for future reference or further analysis.