Stock Data Processor Module  
  
This module provides a comprehensive solution for fetching, processing,   
and analyzing stock market data using the Alpha Vantage API.  
  
Key Features:  
- Robust API data retrieval  
- Advanced data cleaning and preprocessing  
- Outlier detection and removal  
- Detailed logging and error handling  
- Flexible stock data analysis  
  
Dependencies:  
- requests: For API calls  
- pandas: For data manipulation  
- logging: For comprehensive logging  
  
Usage:  
 processor = StockDataProcessor(API\_KEY, "NVDA")  
 processed\_data = processor.run()