# Interim Report – Brent Oil Price Event Impact Analysis

Project Title:  
Analyzing How Political and Economic Events Affect Brent Oil Prices  
  
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## Planned Analysis Workflow

* 1. Data Preparation: Clean and parse historical Brent oil prices (1987–2022).
* 2. Exploratory Analysis: Visualize long-term trends, volatility, compute returns.
* 3. Event Compilation: Structure 10–15 geopolitical or economic events affecting oil.
* 4. Bayesian Change Point Detection (PyMC3): Identify structural breaks in the time series.
* 5. Insights: Link detected breaks to real events; inform investors, policymakers, operators.
* 6. Communication Plan: Deliver notebooks, dashboard, and PDF report via GitHub.

## Limitations & Assumptions

- Change points identify statistical shifts, not causality.  
- External shocks may impact prices with delays or nonlinear responses.  
- Media coverage may bias which events are considered important.

## GitHub Code Link (Placeholder)

https://github.com/Yeabtssega/oil-price-event-analysis