# COVID-19: Caputo Derivative Analysis for Multiple Countries

This report analyzes the COVID-19 cases in India, Brazil, USA, and Thailand using a Caputo fractional derivative model. The analysis includes total cases modeled using fractional derivatives to account for memory effects in the system.
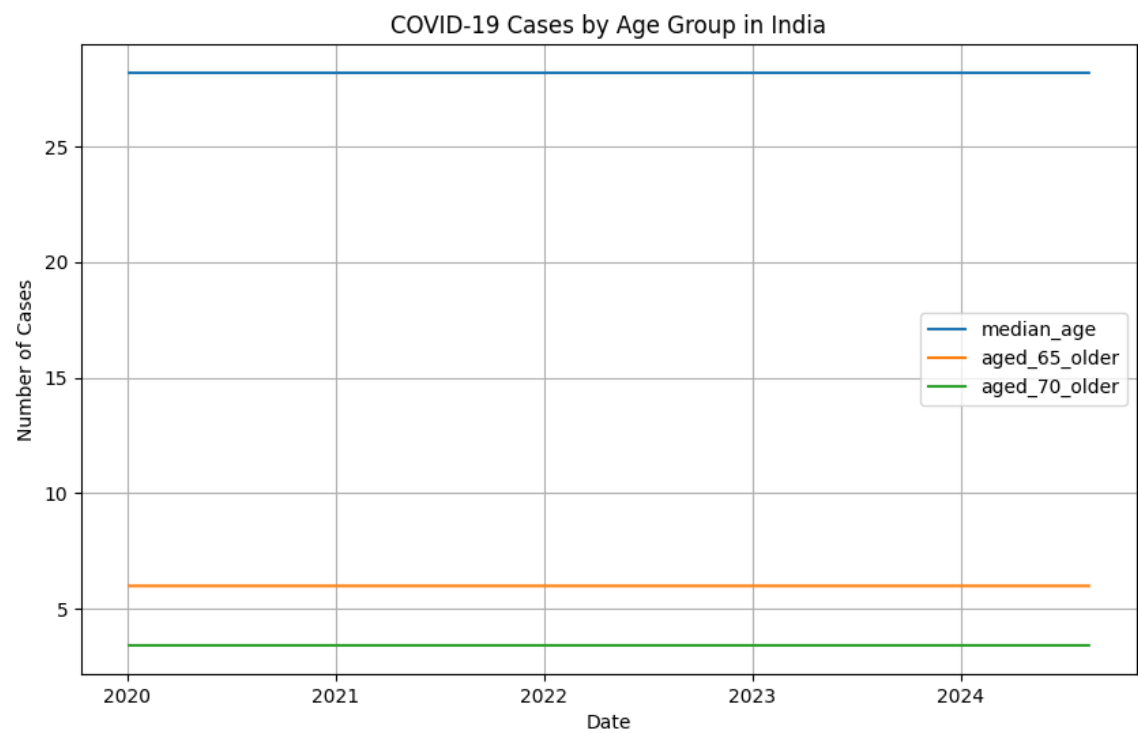
1. Caputo Derivative Data Analysis for Total Cases

The following figures represent the Caputo derivative analysis of COVID-19 total cases for India, Brazil, USA, and Thailand.
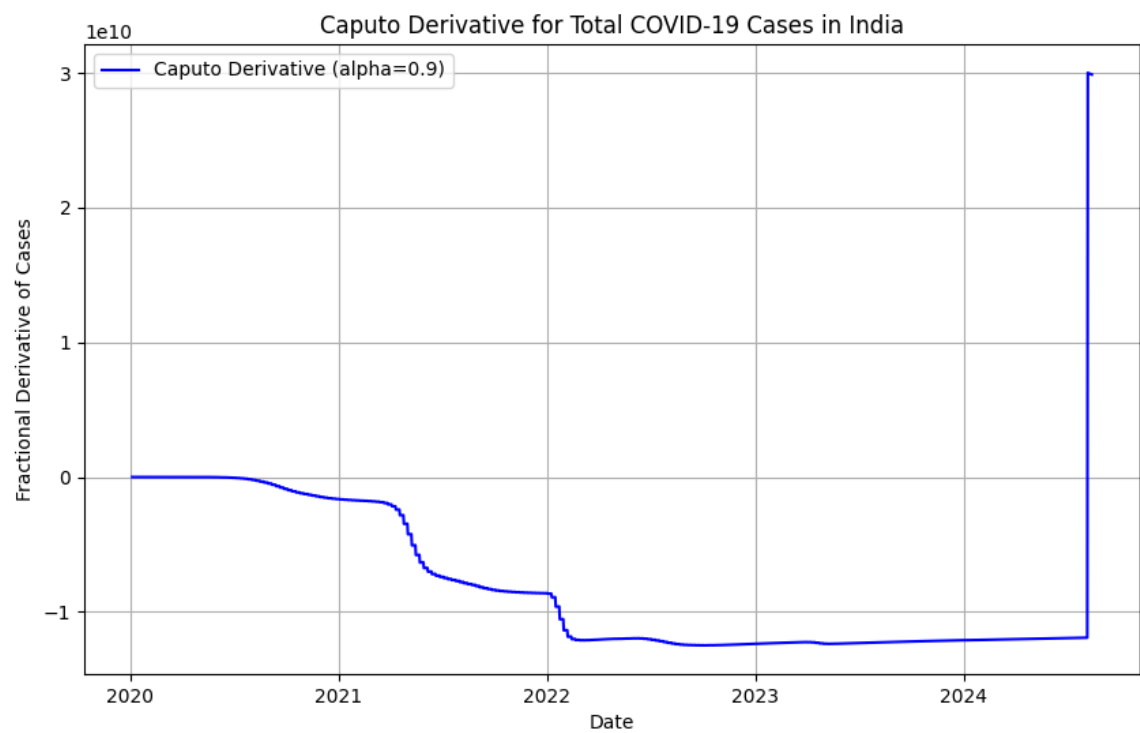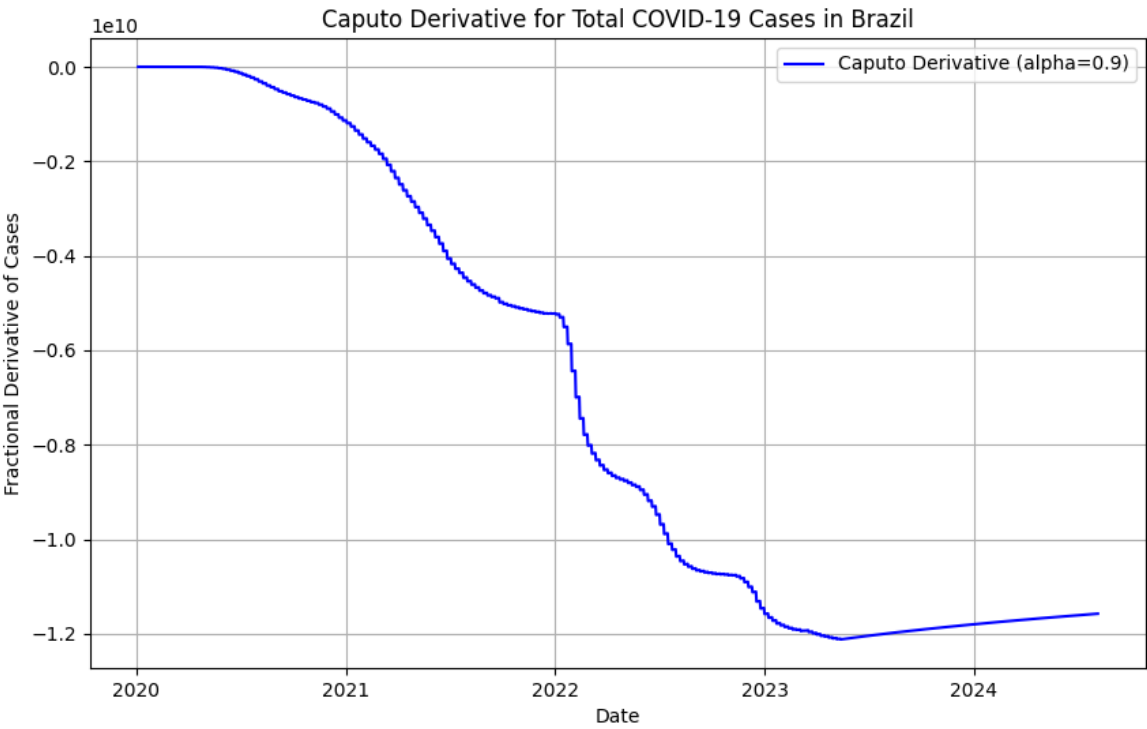
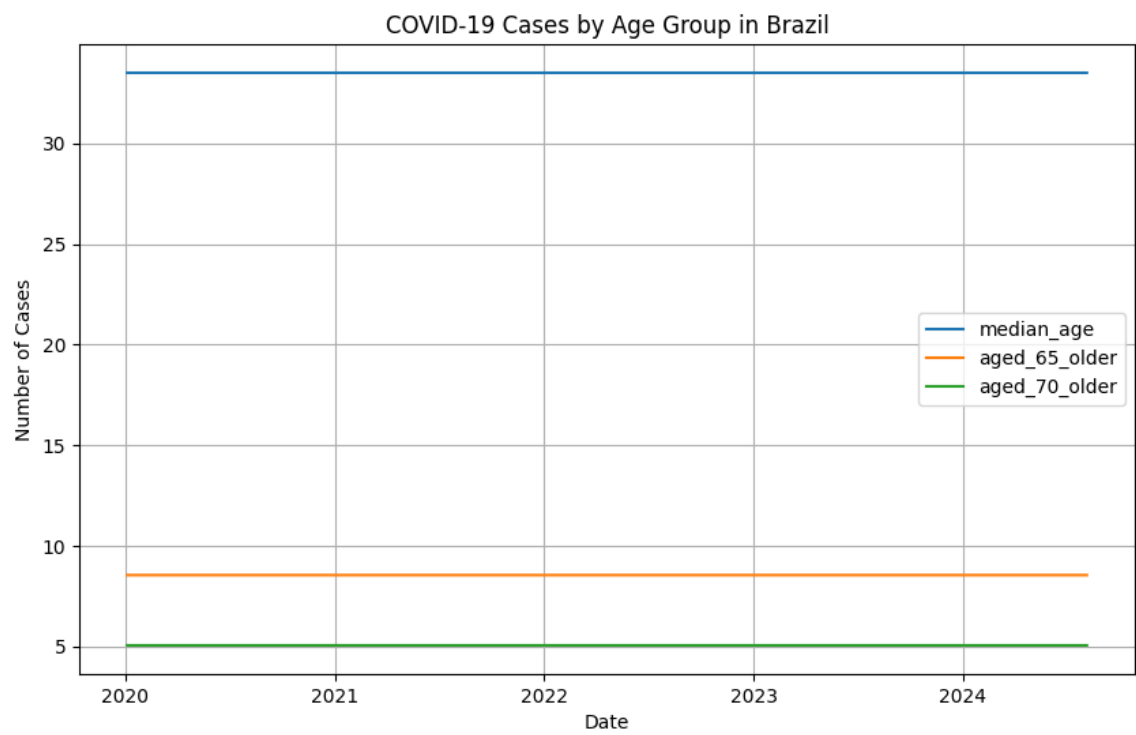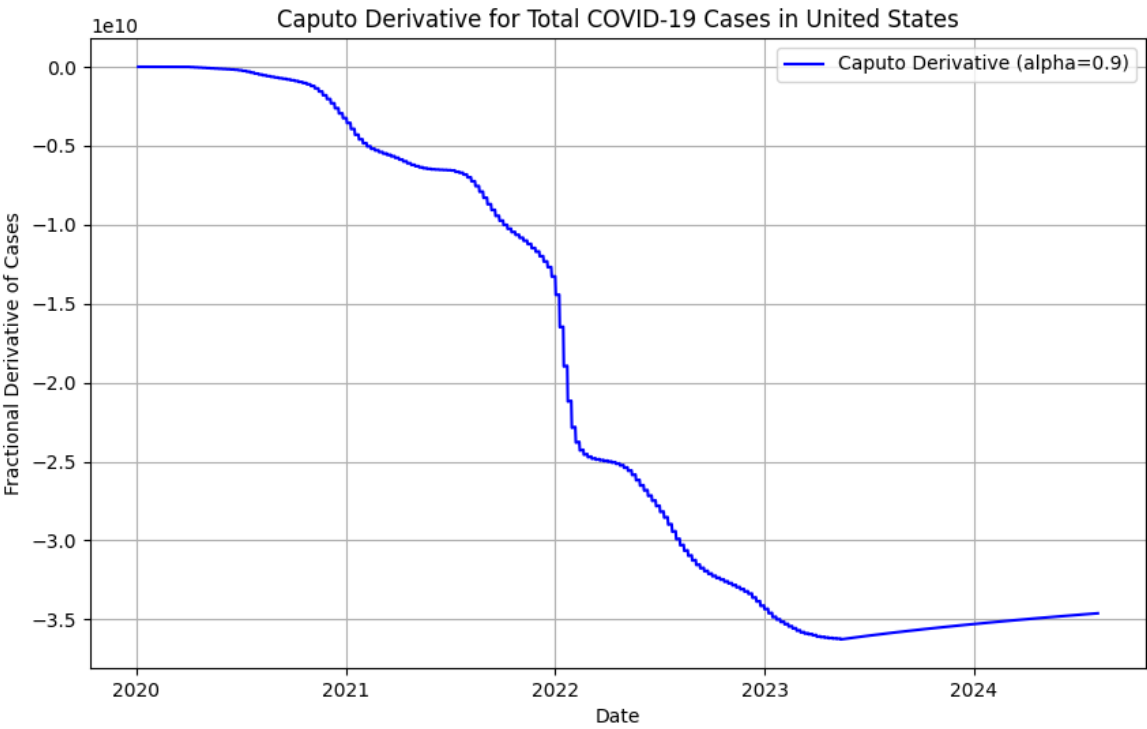# Caputo Derivative for Total COVID-19 Cases in India

Caputo Derivative for Total COVID-19 Cases in India

Age-wise COVID-19 Cases in India

COVID-19 Cases by Age Group in India

Caputo Derivative for Total COVID-19 Cases in Brazil

Caputo Derivative for Total COVID-19 Cases in Brazil

Age-wise COVID-19 Cases in Brazil

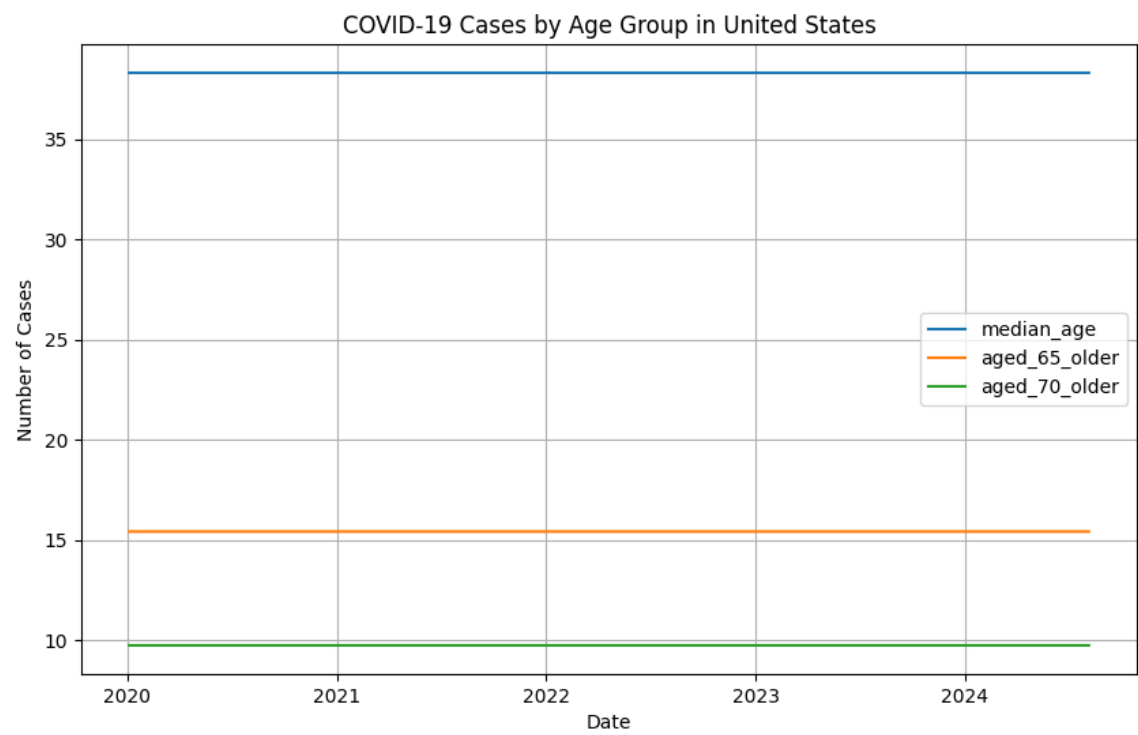COVID-19 Cases by Age Group in Brazil

Caputo Derivative for Total COVID-19 Cases in United States
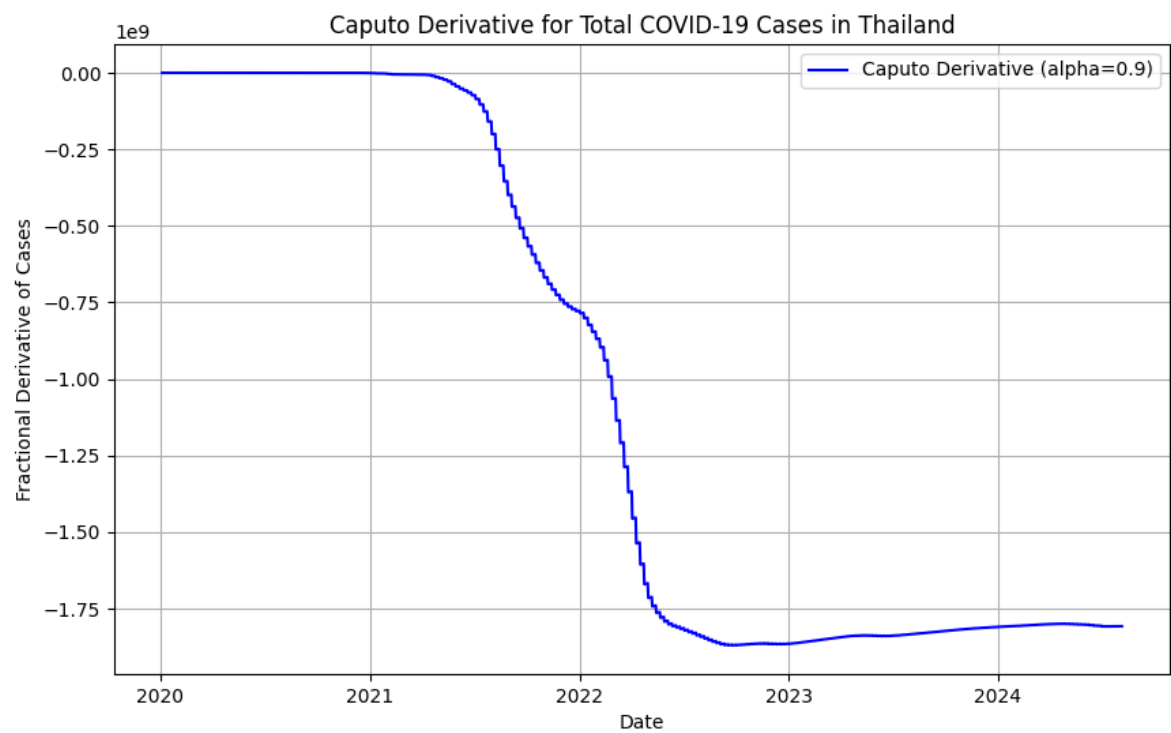

Caputo Derivative for Total COVID-19 Cases in United States

Age-wise COVID-19 Cases in United States

COVID-19 Cases by Age Group in United States

Caputo Derivative for Total COVID-19 Cases in Thailand

Caputo Derivative for Total COVID-19 Cases in Thailand

Age-wise COVID-19 Cases in Thailand

COVID-19 Cases by Age Group in Thailand
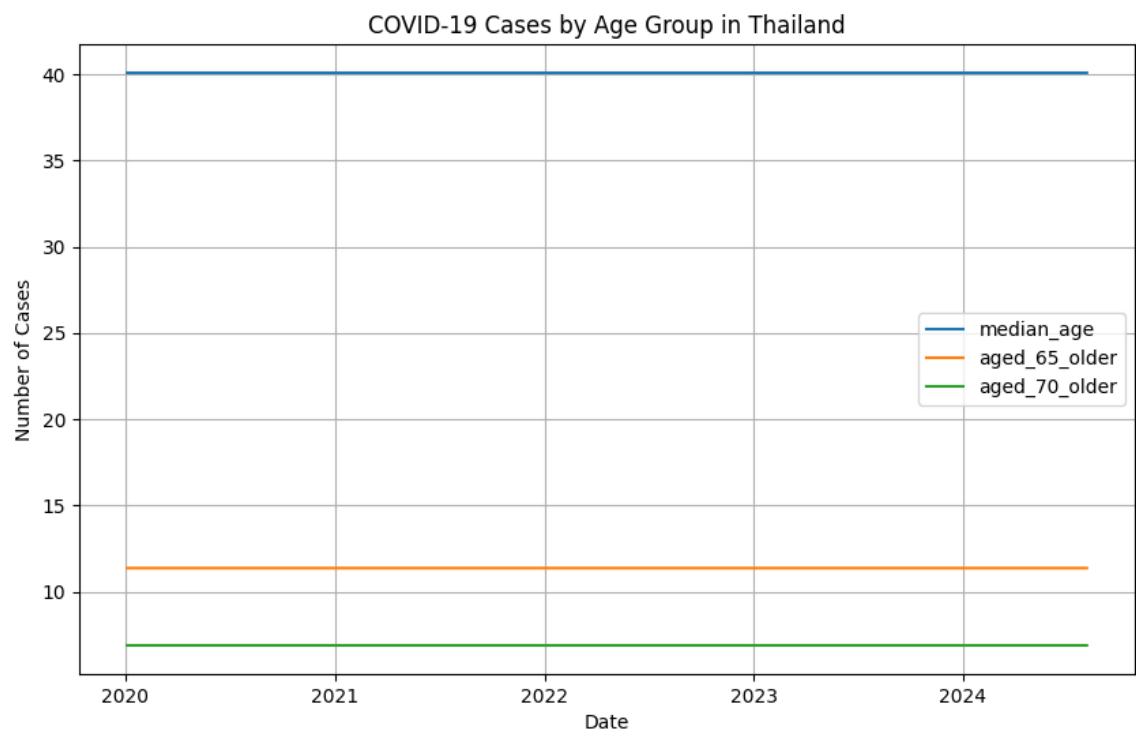
Comparison of Caputo Derivative for Total COVID-19 Cases

Caputo Derivative for Total COVID-19 Cases in India, Brazil, USA, and Thailand