**Title:** Forecasting future cash rates using the 4 factors that influence the RBA cash rate

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**Project Description:**

The Reserve Bank of Australia (RBA) uses a variety of factors and data to determine interest rates in Australia. Some of the key factors that the RBA considers include:

* Inflation (CPI)
* Economic growth (GDP)
* International economic conditions (exchange rates and commodities)
* Financial stability (bank interest rates and unemployment)

**Research questions to answer:**

* How the variables in these 4 factors influence the RBA cash rate decision?
* Which one of these factors is the biggest influencer for the cash rate?
* Which of these factors has positive influence and/or negative influence to the cash rate?
* What will be the future cash rate based on these 4 factors?

**Datasets to be used:**

* RBA cash rate dataset
* RBA monthly CPI dataset
* RBA quarterly GDP dataset
* RBA monthly exchange rate dataset
* RBA commodities dataset
* Commbank Standard variable rate (principal and interest rate) dataset
* Unemployment job data dataset

**Rough Breakdown of Tasks:**

* Data clean-up for each csv files (date column to be standardised in all dataset)
* Merge all data into 1 csv file
* Generate trends and visualisation to answer the research questions
* Perform regression analysis to try to predict the next cash rate