

# Rice Price Prediction


CM 3720 – Machine Learning

215514G – Bandara W.U.P.K






# Problem



In Sri Lanka, the rising price of rice is a highly discussed topic at present. Nowadays and most of the people are pointing towards the industrial Mills, that they are increasing the price to gain higher profit. The real issue is they hiding the details of actual expenses about the process of making rice from paddy.





# Proposed Solution



Analyze the price fluctuations during last 27 years (1996–2022)

targeted Features :

- paddy collection prices
- paddy production
- total rice needs
- Exchange rate
- Fuel price
- Monetary Aggregations
- Date

**Let's try to predict the price for upcoming months based on above features**





# Advantages

01

predict the price based on technical and scientific basis

02

Can control the conditions to maintain the price at a constant amount

03

Reduce gaining highr profit by the industrial mills







# Model




## Tried with

### Random Forest

- Averaging (reduce variance)
- Parallel
- less prone to overfitting
- understand highly influencing features
- high accuracy

### XGBRegression

- Weighted combinations for weak learners
  - Sequential
  - less prone to overfitting with tuning
  - reduce bias
  - high accuracy
- 



**Let's see the  
Demonstration**





**Thank  
You**