

Due to covid19 demand for shipping has exponentially increased!



Proposed Solution (Predictive Analysis)

Al's usage:

- Monitors export of cargos from one country.
- Suggest best prediction for the next shipment amount. Which could be used to arrange available resources for shipments.
- Maps Geopolitical naval routes and trends of transportations.

Possible Add-on's:

 Notification System – Provide notification when the trend of cost goes low (consumer or business owner)/ if more transportation occurs (to shipment owners).

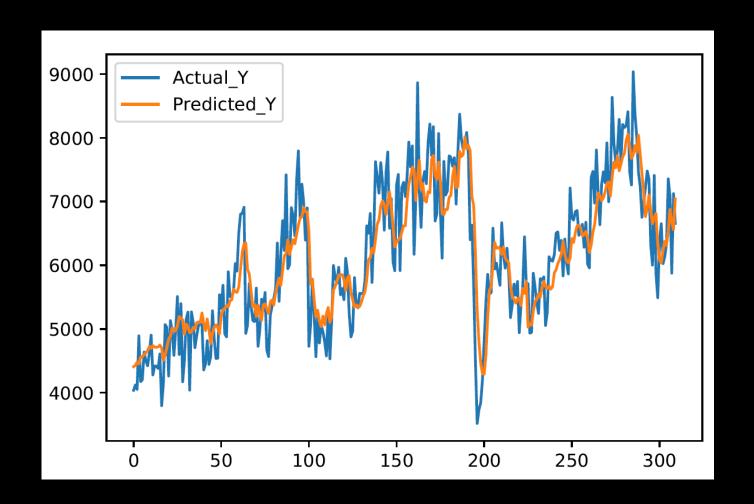
What has been done?

Training:

- The Model comprises of:
 - LSTM layer with a ReLu activation
 - Loss: Mean Squared Error
 - Optimization: Adam
- The Train to test Ratio= 7:3
- Training data: Export (in Tonnes) in from one country to the other (E.g., Singapore to Japan).
- Test set is made sure that the window doesn't overlap, hence it could be used for evaluation

Evaluation:

• The evaluation is done using non-overlapping test dataset to avoid any bias.



Evaluation results!

RMSE of model: 502

RMSE of logistic regression: 619

1.23X Better!



Questions?

