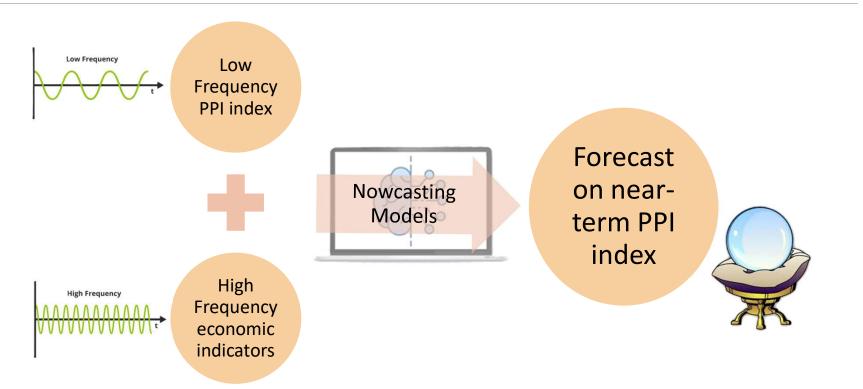
## Nowcasting Made Available Application For Private Residential Property Price Index Nowcasting

USER GUIDE

LAST UPDATED: 31 MAR 2024

#### What is Nowcasting?



#### Overview

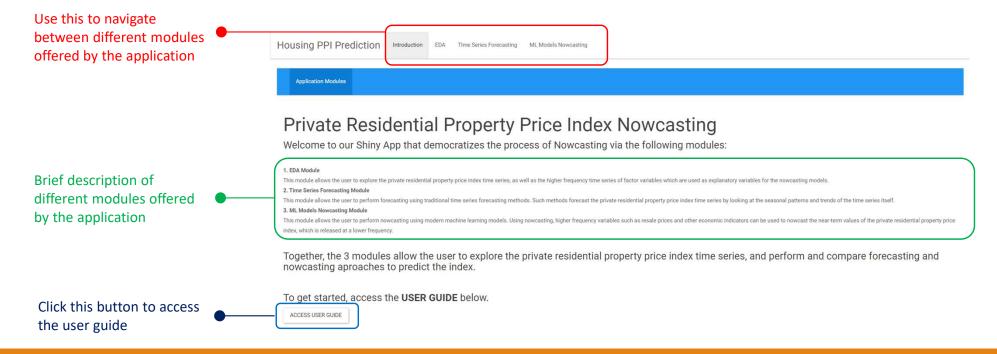
The application contains the following modules / tabs:

- Introduction (Landing page)
- **EDA**
- Time Series Forecasting
- ML Models Nowcasting

Each of the above modules will be elaborated in subsequent sections.

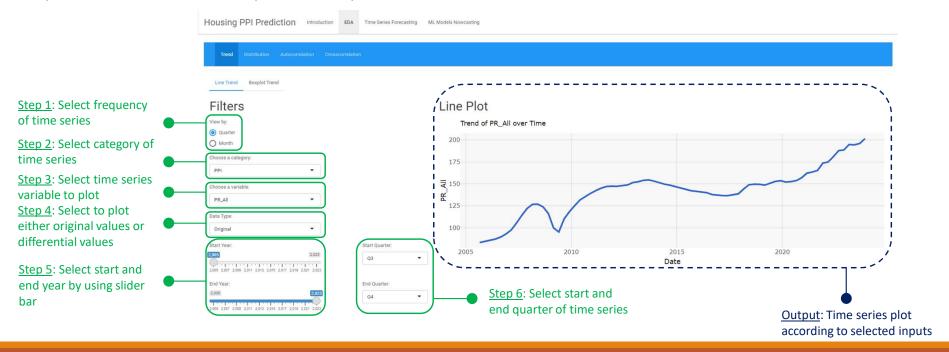
## Landing Page – Introduction

This is the first screen that users will be shown with upon initialization of the application.



#### EDA – Line Trend (Line Plot)

This sub-module provides the user with the functionality to view the time series trend lines, and allows for input parameters to customise the plot (Access by EDA > Trend > Line Trend)



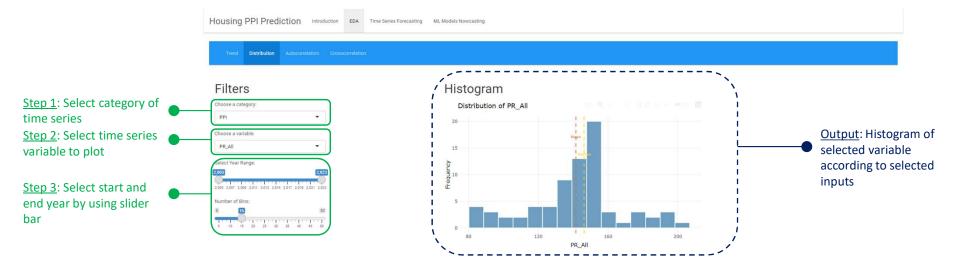
#### EDA – Line Trend (Boxplot Trend)

This sub-module provides the user with the functionality to view the time series boxplot trend lines, and allows for input parameters to customise the plot (Access by EDA > Trend > Boxplot Trend)



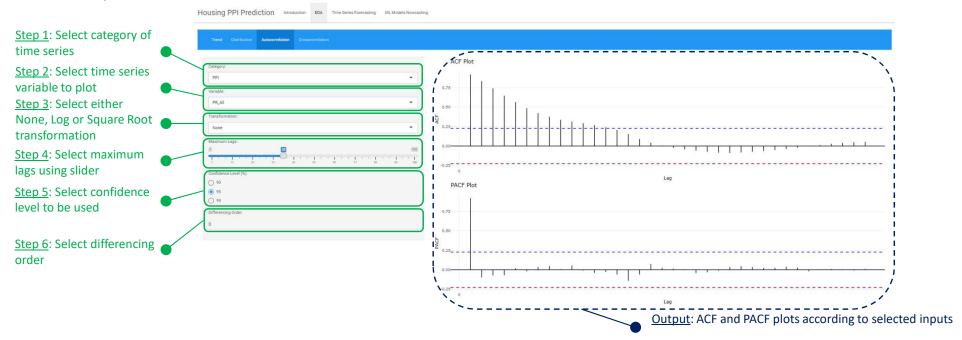
## EDA – Distribution

This sub-module provides the user with the functionality to view the frequency distribution of the time series variables (Access by EDA > Distribution)

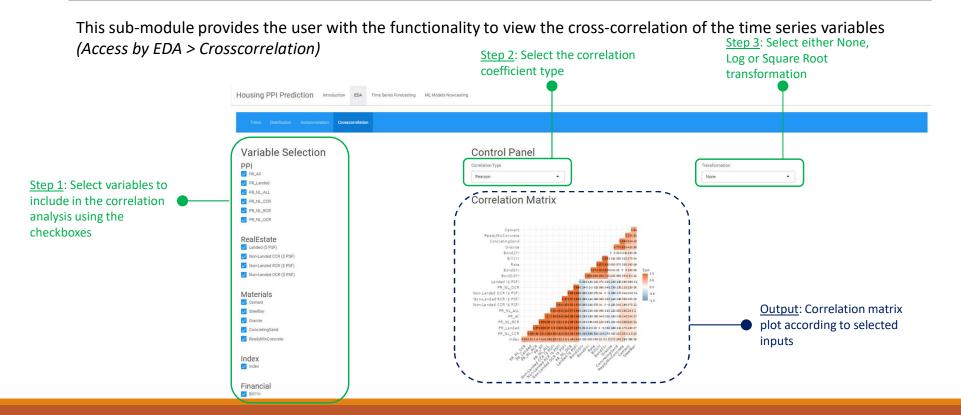


#### EDA – Autocorrelation

This sub-module provides the user with the functionality to view the autocorrelation of the time series variables (Access by EDA > Autocorrelation)

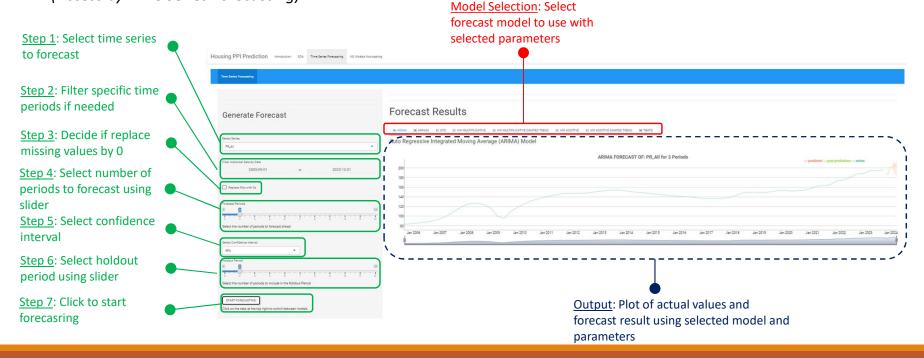


#### EDA – Crosscorrelation



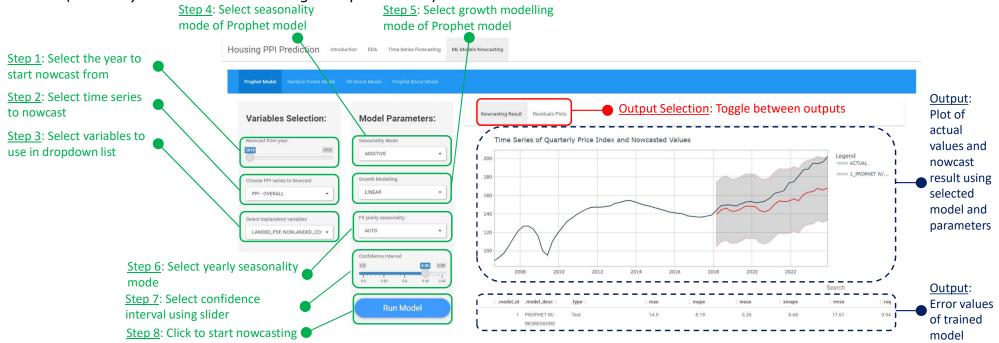
#### Time Series Forecasting – Multiple models

This sub-module provides the user with the functionality to perform analysis using time series forecasting models (Access by Time Series Forecasting)



## ML Models Nowcasting – Prophet Model

This sub-module provides the user with the functionality to perform analysis using Prophet model for nowcasting (Access by ML Models Nowcasting > Prophet Model)



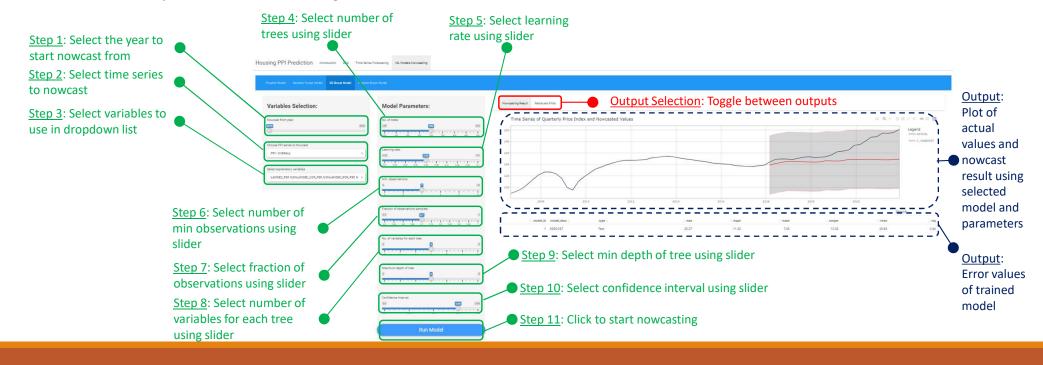
### ML Models Nowcasting – Random Forest Model

This sub-module provides the user with the functionality to perform analysis using Random Forest model for nowcasting (Access by ML Models Nowcasting > Random Forest Model)



## ML Models Nowcasting – XG Boost Model

This sub-module provides the user with the functionality to perform analysis using XG Boost model for nowcasting (Access by ML Models Nowcasting > XG Boost Model)



## ML Models Nowcasting – Prophet Boost Model

This sub-module provides the user with the functionality to perform analysis using Prophet Boost model for nowcasting (Access by ML Models Nowcasting > Prophet Boost Model)



# Have Fun Forecasting & Nowcasting!!