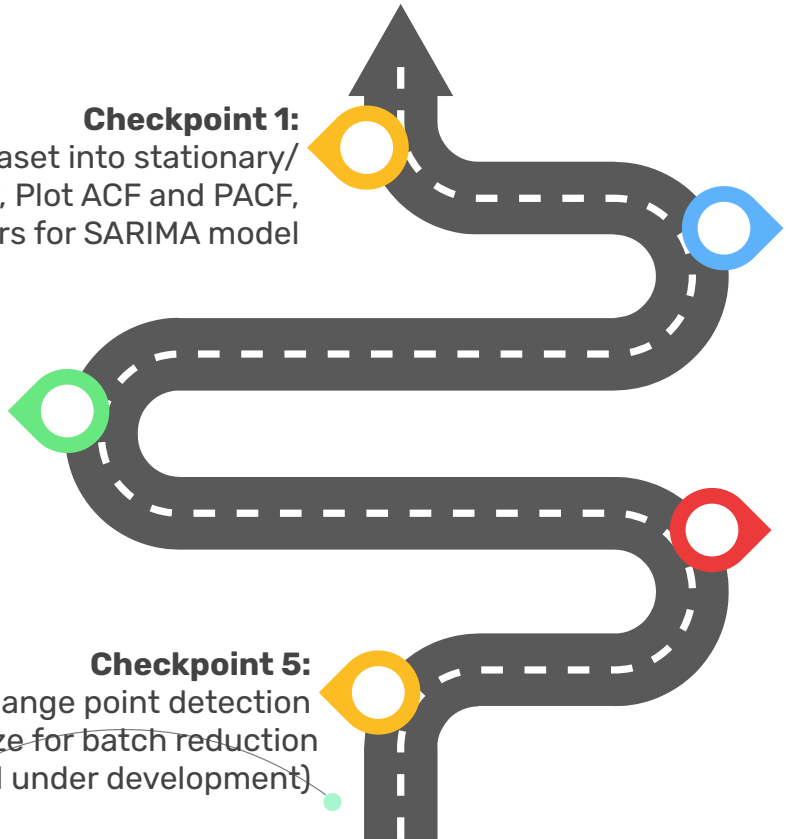
DATAGENIE-DATA SCIENCE HACKATHON

21PC03-AKHIL SM

My Approach

Checkpoint 1:
Data preprocessing, Set dataset into stationary/ non-stationary, Check seasonality, Plot ACF and PACF, Data visualisation, Fix parameters for SARIMA model



Checkpoint 2:
Predict output using SARIMA model and calculate it's MAPE value, Batch anomaly detection using prophet

Checkpoint 3:
Create FAST API, Call the above implemented functions and display it's respective outputs

Checkpoint 4:
Optimize model using Grid Search CV, Calculated the time taken by model

Checkpoint 5:
Use Grid Search CV and change point detection mechanism to fix minimal window size for batch reduction algorithm (still under development)

Thanks!