

CSE 881 FINAL PROJECT

Project Title: Urbanization Backscatter: 36-Month Forecast Project

Project Type: Application

Difficulty: Moderate

Data Collection (1 Point): Our project involved extensive monthly data collection span through NASA API that is approximately 20 Gb.

Data Preprocessing (1 Point): Since the data is collected from 3 different satellites, we need to perform Data Integration then Data Cleaning followed by Missing Values Handling and Feature Engineering.

Algorithm Development (1 point): Our project has the comparison of Statistical Model (SARIMA) vs LSTM network where a comprehensive model selection and model evaluation analysis is carried out.

Summary of Team Member Participation:

Name	Responsive to emails*	Attended project meetings *	Participate in data collection /preprocessing	Participate in coding	Participate in analysis/ experiments	Writing final report	Class presentation	Completed Assigned Tasks
Pavan	3	3	3	3	3	2	2	3
Tanishq	3	3	2	3	2	3	3	3

Team Member Roles and Contributions:

Name	Roles and Contributions
Pavan	Responsible for Data Collection and Model selection of LSTM approach
Sandeep	Responsible for Model Selection and Evaluation of SARIMA and primary author of presentation
Tanishq	Performs exploratory data analysis, model evaluation of LSTM model and primary author of final report

I approve the content of the final report (please add your signature below):

Sandeep: *sandeep*