✓ Please use Times New Roman font size 12 and line spacing of 1.5.

✓ Provide page numbers.

✓ Email both word and pdf files of the report.

✓ Email the sources of your project dataset.

✓ The report submission deadline is April 10th 11:59 pm.

✓ Email me at "ridwanalaziz@ipe.buet.ac.bd" and CC "k.chitroleka@gmail.com" with the Subject "IPE 6107: Final Project and Dataset by XXXXXXX (student number(s))".

✓ No need for presentation or hardcopy of the report.

✓ The report should contain the following sections and subsections, if applicable. For transportation projects focused on literature review and image classification based projects, all the subsections may not be appropriate.

✓ For transportation projects focused on literature review, I expect a very detailed literature review (covering 50-70 literatures) and propose a framework for Dhaka/Bangladesh with justification why such framework is chosen.

Abstract

Keywords (5-7)

1. Introduction

- Background

- Motivation

- Summary: Results and insights

2. Literature Review

- Current Knowledge

- Literature Review Table (with columns including Paper, Predictor, Outcome, Temporal Range and Resolution, Methodology, Data Source)

- Research Gap

- Research Objectives and Questions

3. Data Description

- Data Description Table (with columns including Variable, Definition, Unit, Temporal Range and Resolution (daily/weekly/monthly/annual), Source)

- Feature Selection Table (with columns including Feature, Source (papers/articles/report stating the relation of this feature to the outcome))
- Data Distribution (boxplot, histogram, bar chart, pie chart, density chart)

4. Data Processing

- Dealing with Missing Data (if any)
- Feature Calculation (formula and sample calculation, if any)
- Scatterplot Analysis (2D and 3D between predictors and outcome)
- Correlation Matrix (Preliminary and Final)

5. Analytical Result

- Model Implementation (Data Partitioning (train-test-validation), Model Diagnostics)
- Model Performance (based on RMSE, MAE, and R^2)
- Model Result

6. Prescriptive Insight

7. Conclusion

- Summary
- Limitations
- Future Research Direction

Reference