**Project Title**

*Team member 1, Team member 2, Team Member 3,Team member 4*

**Abstract**

Summarize your research question, your analysis, results and your findings.

***Keywords:*** Write 5 most related keywords according to your project

1. **Introduction**

In introduction section you need to answer following questions.

* **Why you chose the topic?**

Why your topic is important? (Minimum 5 scientific references[1])

Which concerns made you choose this topic? (Minimum 3 scientific references)

* **Which gaps you defined in the literature?**

What are the previous studies on the topic and what did they do?(Minimum 7 scientific references)

How your project differs from the previous work?(with references to the previous research)

* **General explanation of your project.**

What is your aim?

What is your road map?

What is your expected outcomes?

1. **Purpose of the study**

Explain the purpose of your study in detail.

1. **Data**

Introduce your data.

* Which dataset are you using? (give reference for your data)
* Was that dataset used in the literature before, how?(with reference)
* What are the data collection period and data interval?
* What are the features and what do the features represent? (support with visualization)
* How many samples does your data have?
* Does your data have any gaps?(support with visualization)
* Does your data have any trend or seasonality? (support with visualization)
  1. **Data cleaning and preprocessing**

Explain your data cleaning and preprocessing strategy.

* Explain your data cleaning strategy.
* Explain your gap filling strategy.
* Explain your detrendization and deseasonalization strategy.( support with visualization)
* Explain your outlier analysis and removal. ( support with visualization)( Minimum 2 scientific references)

1. **Case**

Briefly explain your case.

* 1. **Analysis**

Share your analysis (present and forecasting study), relevant calculations and charts.

* 1. **Results**

Share the results of your analysis. (Mathematical outputs, realities) ( support with visualization)

1. **Discussion and future work**

Interpret the mathematical results. State the present situation and find the expectancies according to forecasting.

Give solution ideas (make decisions) for your research question. ( Minimum 2 scientific references)

State what you can do in the future to develop the work.

**References**

[1] K. Wang et al., “A comprehensive emission inventory of multiple air pollutants from iron and steel industry in China: Temporal trends and spatial variation characteristics,” Sci. Total Environ., 2016, doi: 10.1016/j.scitotenv.2016.03.125.

[2] E. Pattey and G. Qiu, “Trends in primary particulate matter emissions from Canadian agriculture,” J. Air Waste Manag. Assoc., vol. 62, no. 7, pp. 737–747, 2012, doi: 10.1080/10962247.2012.672058.

[3] S. Soylu, “Estimation of Turkish road transport emissions,” Energy Policy, 2007, doi: 10.1016/j.enpol.2007.02.015.

\*Do not overuse graphs; every graph must be explained.

\*Over usage of AI tools is discouraged; it will affect your grade.

\*Use the IEEE reference format as in the examples above.

\*You must use at least 20 references as stated, and references must be from papers published in scientific journals.

\*You can search for references from:

<https://www.scopus.com/search/form.uri?display=basic#basic>

<https://www.mendeley.com/?interaction_required=true>

<https://scholar.google.com/>

<https://pubmed.ncbi.nlm.nih.gov/>

<https://www.researchgate.net/>