

# KLIMAT -Global Temperature Analysis

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## Abstract

The problem we will tackle is predicting the average global land and ocean temperature using over 200 years of past weather data. We are going to act as if we don't have access to any weather forecasts. What we do have access to is a century's worth of historical global temperatures averages including; global maximum temperatures, global minimum temperatures, and global land and ocean temperatures.

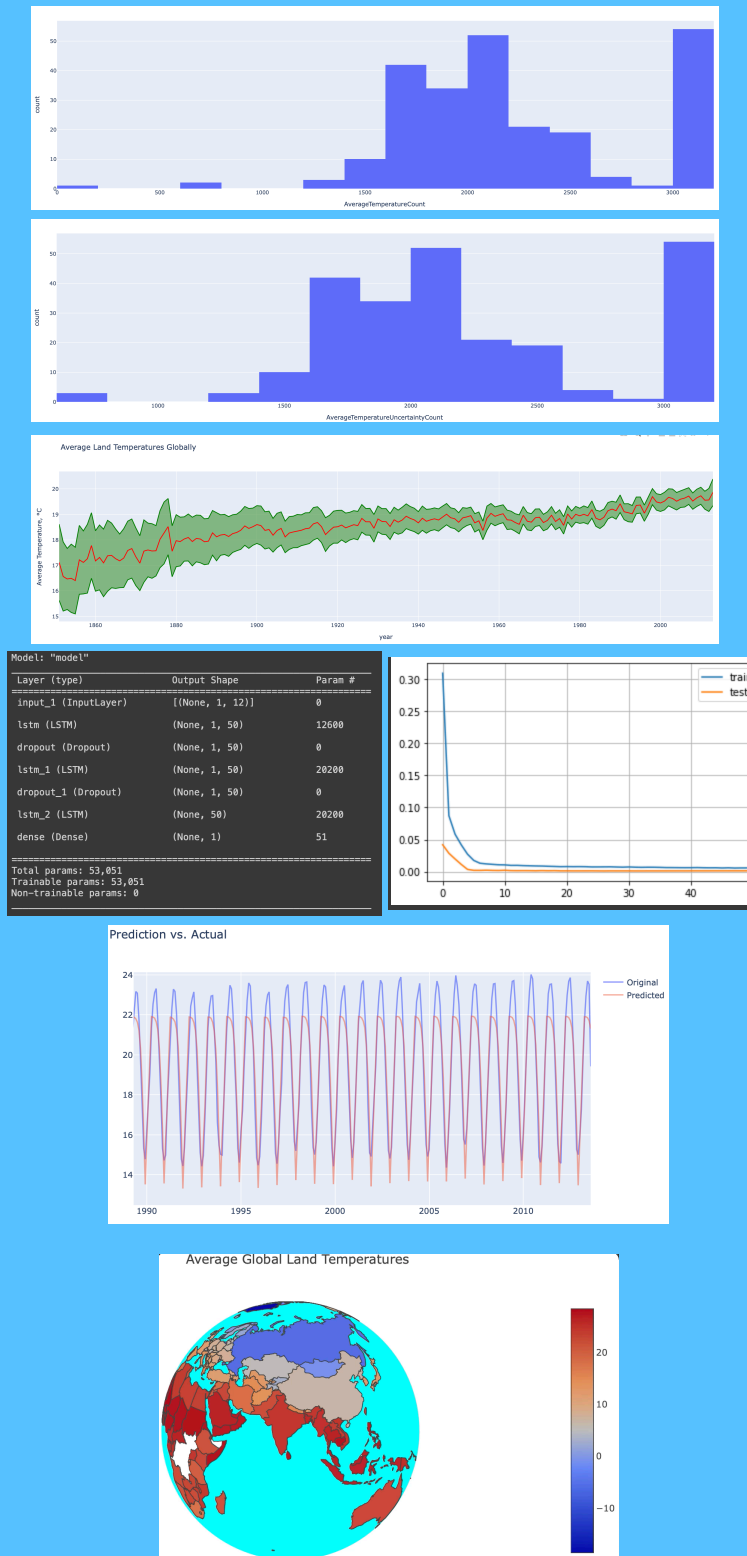
## Objectives

My aim is to make people understand the severity of global warming without any effort using advance visualisation tools. Using advance deep learning techniques for learning the data and visualising the future trend.

## Method

- Declare the problem and ascertain the needed data.
- Adjust the data for the machine learning paradigm by data-cleaning.
- Learn a baseline paradigm.
- Begin to train the prototype on the isolated training data.
- Make forecasts on the separate test data kept aside.
- Perform comparative predictions to the known test predefined objectives and calculate performance metrics.
- If performance is not satisfactory, adjust the model, acquire more data, or try a different modelling technique.
- Render the model and record outcomes visually and numerically.

## Results



## References

- IPCC Sixth Assessment Report, Summary for Policymakers. <https://www.ipcc.ch/report/ar6/wg1/#SPM>
- <https://plotly.com/python/plotly-express/>
- Choropleth Maps in Python. <https://plotly.com/python/choropleth-maps/>
- Time series forecasting. [https://www.tensorflow.org/tutorials/structured\\_data/time\\_series](https://www.tensorflow.org/tutorials/structured_data/time_series)

## Acknowledgement

I would like to acknowledge and give my warmest thanks to my professor **Dr. Suneet Kumar Gupta** for his expert advice and encouragement throughout this project.