## REFERENCES

[1]For Installing Python Libraries

Python Packages - <https://pypi.org/>

[2] For Building Model & Data

Google Colab(Model) - <https://colab.research.google.com/>

Kaggle (Data) - <https://www.kaggle.com/datasets/>

[3] For Solving Error

Geeks for geek – <https://geeksforgeeks.org/>

Google Colab - <https://colab.research.google.com/>

Tensorflow - <https://www.tensorflow.org/>

Stackoverflow - <https://stackoverflow.com/>

## APPENDIX

#### [1] Libraries Used

**os**: Sets environment variables.

**numpy**: Handles multi-dimensional arrays and matrices.

**pandas**: Manipulates and analyzes data; reads CSV files.

**matplotlib**: Creates static, animated, and interactive visualizations.

**mpl\_toolkits.mplot3d**: Enables 3D plotting in matplotlib.

**sklearn.preprocessing**: Provides tools for data scaling.

**sklearn.model\_selection**: Splits data into training and testing sets.

**keras**: Builds and trains neural network models.

#### [2] CSV File Format

The "L A\_Weather.csv" contains columns for Date, Station, Station Name, Tavg (average temperature), Tmax (maximum temperature), and Tmin (minimum temperature).

#### [3] Figures Explanation

**3D Scatter Plot**: Shows Tmax, Tmin, and Tavg relationship.

**Predicted vs Actual Scatter Plot**: Compares predicted and actual Tavg.

**Predicted vs Actual Line Plot**: Visualizes predicted vs. actual Tavg over the test set.