UNDERWATER SURFACE TEMPERATURE PON SWARNALAYA RAVICHANDRAN

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SOURCE: https://www.kaggle.com/datasets/shivamb/underwater-surface-temperature-dataset References: https://www.seanoe.org/data/00510/62120/

This dataset contains underwater temperature (°C) data from seven islands and two submerged rocky reefs along the Santa Catarina coast, southern Brazil, between 26°22'S and 28°26'S. Temperature records were acquired every 20 minutes, between December 2012 and July 2014, using a HOBO Pendant® Temperature Data Logger UA-002. The data loggers were installed underwater by SCUBA divers and anchored to the rocky reef with epoxy at 5 m and 12 m depth, in the islands, and at 22 m depth in the submerged reefs. Due to equipment loss, some depths are missing for specific sites. The dataset is structured in seven variables: Site, Latitude, Longitude, Date, Time of Sampling, Temperature (°C) and Depth (meters). This dataset contains more than 5000 datapoints.

The dataset is multivariate and has 8 continuous numerical characteristics. Since I intend to focus on underwater surface temperature forecasting and analysis, "Temp (°C)" has been chosen as the forecasting variable. It is uncleaned and unclassified dataset. It is both trending and seasonal. I did preprocessing i.e., forward filling the missing variables to make it appropriate to use.

Before Preprocessing:

dtype: int64	
ID	0
Site	0
Latitude	0
Longitude	0
Date	0
Time	0
Temp (°C)	4
Depth	0
dtype: int64	

After Pre-processing:

ID	0
Site	0
Latitude	0
Longitude	0
Date	0
Time	0
Temp (°C)	0
Depth	0
Date Time	0
dtype: int64	