

I have last 10 years of sea S.S.T. and CHIL. data along with a separate record of what temperature the fish can live in. Based on this, I want to make a model so that we can predict what kinds of fishes are found in which places (latitude, longitude).

Requirements

- 1) Perform data cleaning if required.
- 2) If any parameter seems less, add 1, 2 parameters.
- 3) Apply the latest 5 algorithm like (CNN,KNN,ANN,ARIMA,SARIMA...) and test this data and show the result and check who gets the best result.
- 4) A new algorithm was created by applying the algorithm which has the best result to make it more accurate. or improve the result by merging any 2 algorithms
- 5) Making applicable charts.
- 6) make the model.

Input and Output

- 1) It will input the name and date of the fish and show the location (latitude, longitude) where the fish can be found.
- 2) If you don't give any input, show the name of all the fishes in which place (latitude, longitude) according to the day.

Parameter Explanation

Sst.csv

<u>Sr No</u>	<u>Parameter Name</u>	<u>Description</u>
<u>1</u>	Sensor	Aqua & Terra Are Both Surface Sensor Aqua = 1 Tera = 2
<u>2</u>	Month	Taken Value of That Date of Month
<u>3</u>	Season	Fishing Season spring = 1 summer = 2 fall = 3 winter = 4 Season 1 (Spring , summer) = January to May Season 2 (fall , winter) = September to November
<u>4</u>	Time	Morning = 1 Afternoon = 2
<u>5</u>	Lat	Latitude
<u>6</u>	Lon	Longitude
<u>7</u>	Sst	Sea Surface Temperature

chl.csv

<u>Sr No</u>	<u>Parameter Name</u>	<u>Description</u>
<u>1</u>	Sensor	Aqua & Terra Are Both Surface Sensor Aqua = 1 Tera = 2
<u>2</u>	Month	Taken Value of That Date of Month
<u>3</u>	Season	Fishing Season spring = 1 summer = 2 fall = 3 winter = 4 Season 1 (Spring , summer) = January to May Season 2 (fall , winter) = September to November
<u>4</u>	Time	Morning = 1 Afternoon = 2
<u>5</u>	Lat	Latitude
<u>6</u>	Lon	Longitude
<u>7</u>	chl	chlorophyll the green substance in plants that takes in light from the sun to help them grow

FishName.csv

<u>Sr No</u>	<u>Parameter Name</u>	<u>Description</u>
<u>1</u>	Sr.No	<u>This is Just a Serial Number</u>
<u>2</u>	Species Category	This Field Show the Category of Fish
<u>3</u>	Scientific Name	This is Scientific Language Name of The Fish
<u>4</u>	English Name	This is the Original English Language Name of The Fish

<u>5</u>	Local Name	This is the Local Language Name of The Fish (Mother Tongue)
<u>6</u>	Min Temp	minimum temperature for Fish leaving
<u>7</u>	Max Temp	maximum temperature for Fish leaving
<u>8</u>	Mean Temp	Mean temperature for Fish leaving
<u>9</u>	Fish Temp In Category	<p>Divide Fish category based on the some range of temperature</p> <p>Group 1 : 30 To 40</p> <p>Group 2 : 29 To 26</p> <p>Group 3 : 21 To 25</p> <p>Group 4 : 16 To 20</p> <p>Group 5 : 11 To 15</p> <p>Group 6 : 01 To 10</p>