

## Data Set Information:

<b>Data Set Characteristics:</b>	Multivariate	<b>Number of Instances:</b>	7750
<b>Attribute Characteristics:</b>	Real	<b>Number of Attributes:</b>	22
<b>Associated Tasks:</b>	Regression	<b>Missing Values?</b>	Yes

This data is for the purpose of bias correction of next-day maximum and minimum air temperatures forecast of the LDAPS model operated by the Korea Meteorological Administration over Seoul, South Korea. This data consists of summer data from 2013 to 2017. The input data is largely composed of the LDAPS model's next-day forecast data, in-situ maximum and minimum temperatures of present-day, and geographic auxiliary variables. There are two outputs (i.e. next-day maximum and minimum air temperatures) in this data. Hindcast validation was conducted for the period from 2015 to 2017.

In our study we are interested in just one output, let it be the next-day maximum air temperatures

## Attribute Information:

- **Present\_Tmax** : Maximum air temperature between 0 and 21 h on the present day
- **Present\_Tmin** : Minimum air temperature between 0 and 21 h on the present day
- **LDAPS\_RHmin** : LDAPS model forecast of next-day minimum relative humidity
- **LDAPS\_RHmax** : LDAPS model forecast of next-day maximum relative humidity
- **LDAPS\_Tmax\_lapse** : LDAPS model forecast of next-day maximum air temperature applied lapse rate
- **LDAPS\_Tmin\_lapse** : LDAPS model forecast of next-day minimum air temperature applied lapse rate
- **LDAPS\_WS** : LDAPS model forecast of next-day average wind speed
- **LDAPS\_LH** : LDAPS model forecast of next-day average latent heat flux
- **LDAPS\_CC1** : LDAPS model forecast of next-day 1st 6-hour split average cloud cover (0-5 h)
- **LDAPS\_CC2** : LDAPS model forecast of next-day 2nd 6-hour split average cloud cover (6-11 h)
- **LDAPS\_CC3** : LDAPS model forecast of next-day 3rd 6-hour split average cloud cover (12-17 h)
- **LDAPS\_CC4** : LDAPS model forecast of next-day 4th 6-hour split average cloud cover (18-23 h)
- **LDAPS\_PPT1** : LDAPS model forecast of next-day 1st 6-hour split average precipitation (0-5 h)

- **LDAPS\_PPT2** : LDAPS model forecast of next-day 2nd 6-hour split average precipitation (6-11 h)
- **LDAPS\_PPT3** : LDAPS model forecast of next-day 3rd 6-hour split average precipitation (12-17 h)
- **LDAPS\_PPT4** : LDAPS model forecast of next-day 4th 6-hour split average precipitation (18-23 h)
- **Lat** : Latitude
- **Lon** : Longitude
- **DEM** : Elevation
- **Slope**
- **Solar radiation** : Daily incoming solar radiation
- **Next\_Tmax** : The next-day maximum air temperature