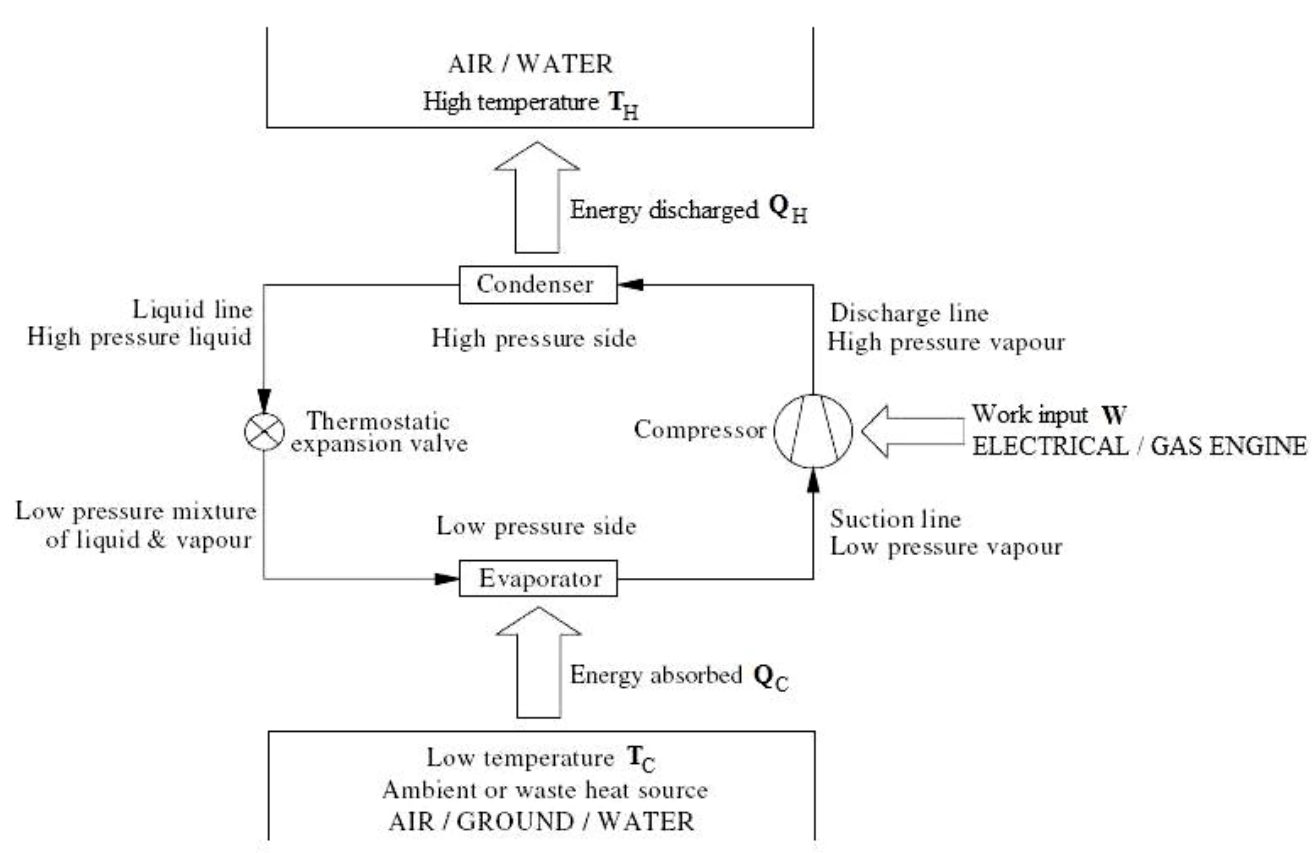
PROYECTO EDA

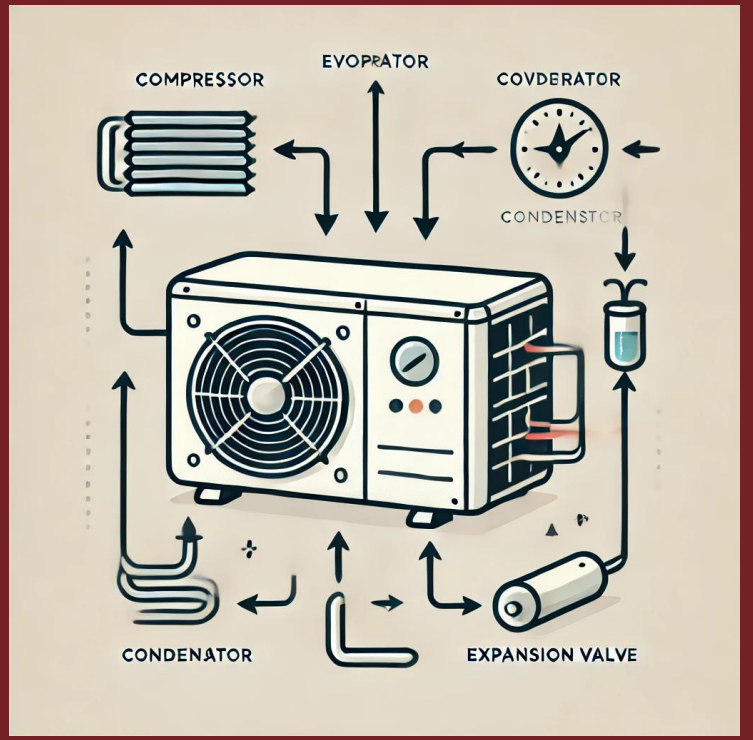
ANÁLISIS SOBRE LA VIABILIDAD DE LA AEROTERMIA PARA USO DOMÉSTICO

Xián Mosquera Caínzos

- Que es una bomba de calor
- Objetivos
- Obtención de los datos
- Análisis de los datos
- Conclusiones

QUÉ ES UNA BOMBA DE CALOR?





OBJETIVOS

SOSTENIBILIDAD

AHORRO ENERGÉTICO

DISMINUCIÓN DEL USO DE COMBUSTIBLES TRADICIONALES

ESTUDIO DE LAS CONDICIONES ATMOSFÉRICAS

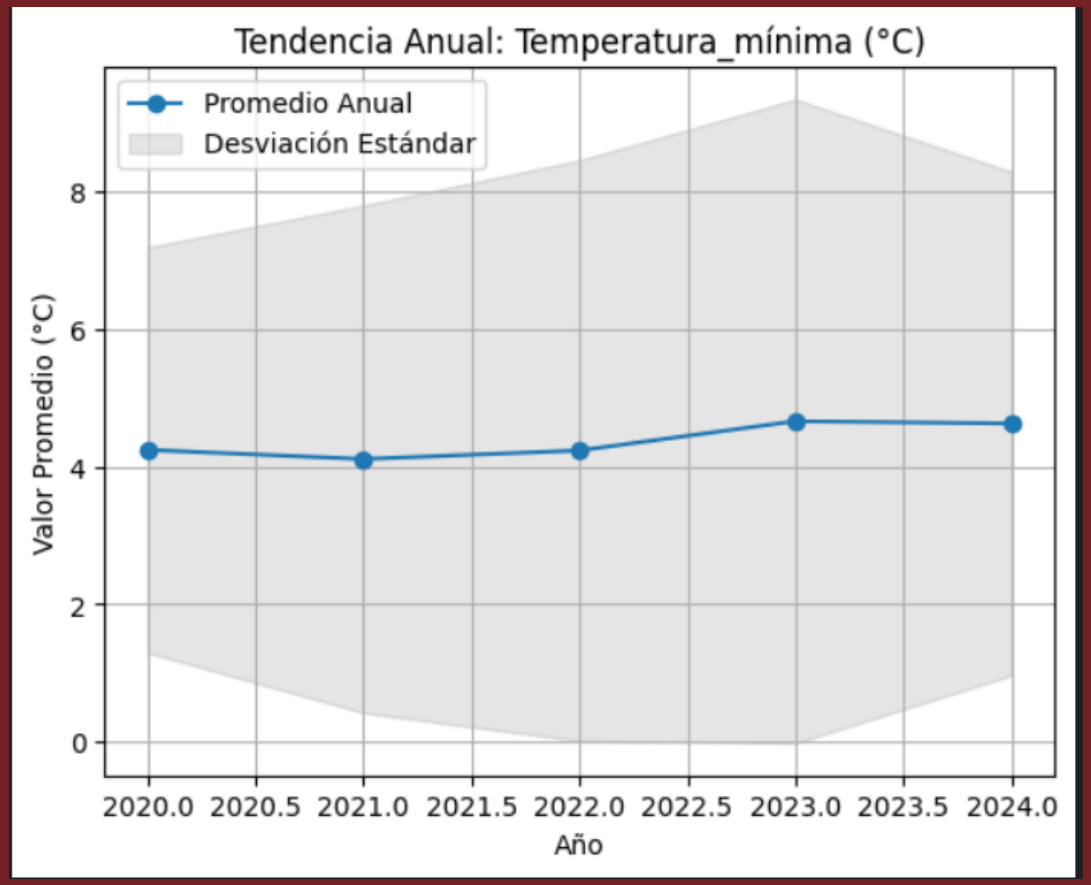
OBTENCIÓN DE LOS DATOS

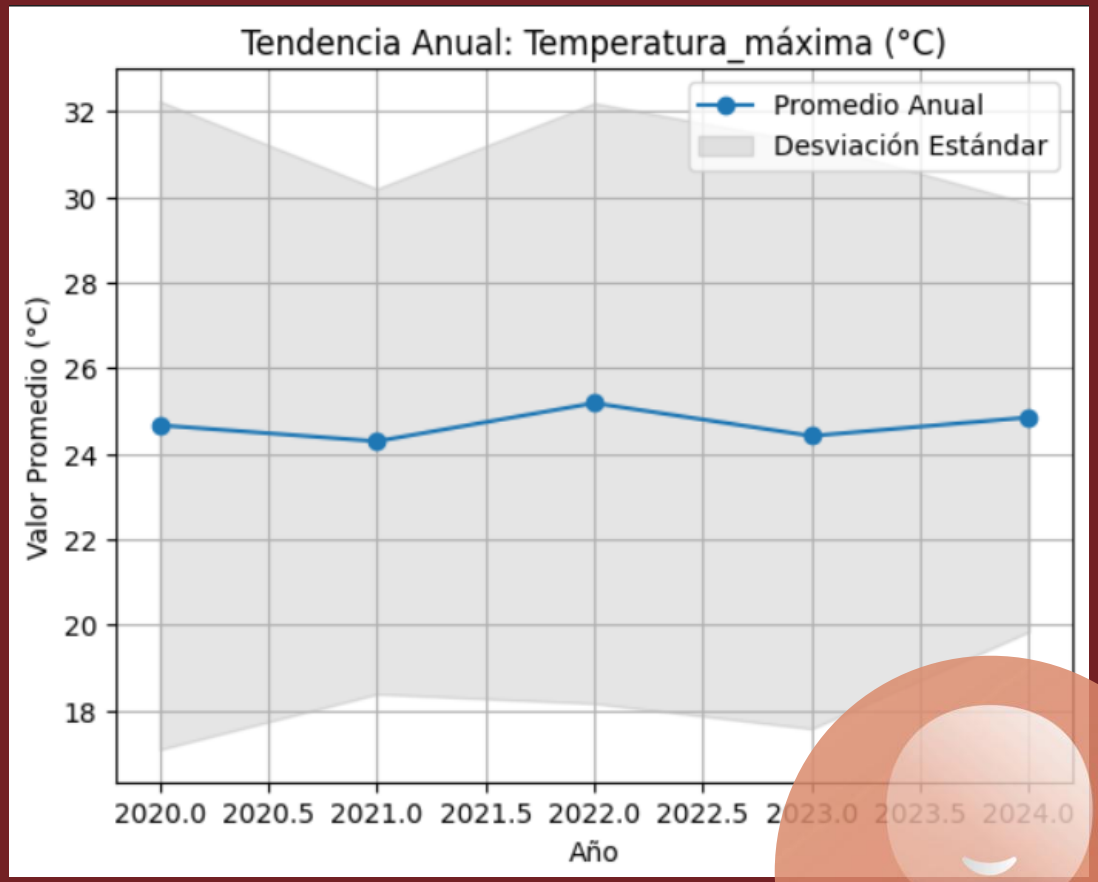
```
"Código validación","Data","Código parámetro","Parámetro","Valor","Unidades"
"1","2020-01-01 00:00:00.0","PP_SUM_1.5m","Chuvia","473.0","L/m2"
"1","2020-01-01 00:00:00.0","PP_MAX_1.5m","Chuvia diaria máxima","116.4","L/m2"
"1","2020-01-01 00:00:00.0","DV_CONDICION_2m","Dirección do refacho a 2m","44.0","º"
"1","2020-01-01 00:00:00.0","DVP_MODA_2m","Dirección do vento predominante a 2m","225.0","º"
"1","2020-01-01 00:00:00.0","HFRIO7_SUM_1.5m","Horas de frío ( <=7ºC)","258.3","h"
"1","2020-01-01 00:00:00.0","HF_SUM_1.5m","Horas humidade foliar mensuais","441.1","h"
"1","2020-01-01 00:00:00.0","HR_AVGMAX_1.5m","Humidade media das máximas a 1.5m","100.0","%"
"1","2020-01-01 00:00:00.0","HR_AVGMIN_1.5m","Humidade media das mínimas a 1.5m","85.0","%"
"1","2020-01-01 00:00:00.0","HR_AVG_1.5m","Humidade relativa media a 1.5m","96.0","%"
"1","2020-01-01 00:00:00.0","NDPP_RECUENTO_1.5m","Número de días de chuvia (>0L/m2)","20.0","Días"
"1","2020-01-01 00:00:00.0","NDPP10_RECUENTO_1.5m","Número de días de chuvia (>10L/m2)","10.0","Días"
"1","2020-01-01 00:00:00.0","NDPP1_RECUENTO_1.5m","Número de días de chuvia (>1L/m2)","16.0","Días"
"1","2020-01-01 00:00:00.0","NDPP30_RECUENTO_1.5m","Número de días de chuvia (>30L/m2)","8.0","Días"
"1","2020-01-01 00:00:00.0","NDPP60_RECUENTO_1.5m","Número de días de chuvia (>60L/m2)","2.0","Días"
"1","2020-01-01 00:00:00.0","NDX_RECUENTO_1.5m","Número de días de xeada","0.0","Días"
"1","2020-01-01 00:00:00.0","PR_AVG_1.5m","Presión","980.9","hPa"
"1","2020-01-01 00:00:00.0","PRED_AVG_1.5m","Presión reducida","1025.7","hPa"
"1","2020-01-01 00:00:00.0","VV_MAX_2m","Refacho máximo a 2m","67.6","km/h"
"1","2020-01-01 00:00:00.0","TA_AVGMIN_1.5m","Temperatura  media das mínimas a 1.5m","5.2","ºC"
"1","2020-01-01 00:00:00.0","TO_AVG_1.5m","Temperatura de orballo a 1.5m","7.5","ºC"
"1","2020-01-01 00:00:00.0","TS_AVG_-0.1m","Temperatura do solo a -0.1m","8.5","ºC"
"1","2020-01-01 00:00:00.0","TA_MAX_1.5m","Temperatura máxima a 1.5m","14.0","ºC"
"1","2020-01-01 00:00:00.0","TA_AVG_0.1m","Temperatura media a 0.1m","7.8","ºC"
"1","2020-01-01 00:00:00.0","TA_AVG_1.5m","Temperatura media a 1.5m","8.2","ºC"
```

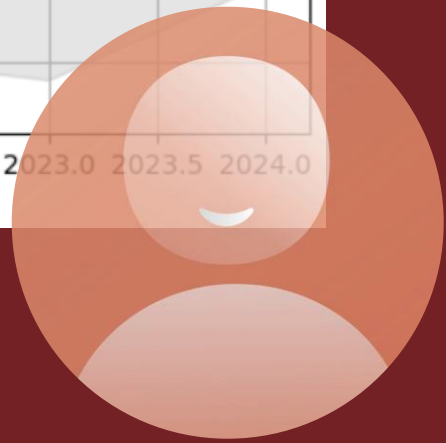
METEOGALICIA

ANÁLISIS DE LOS DATOS

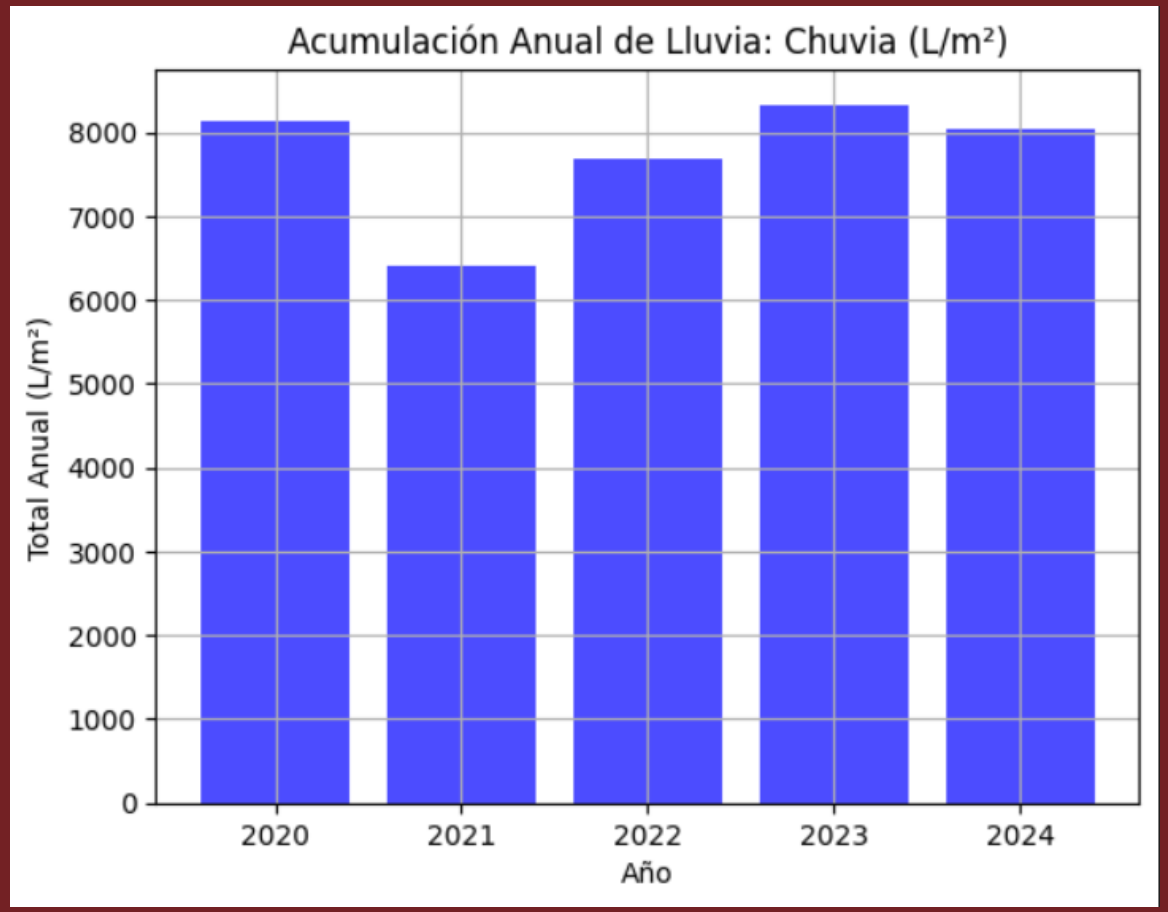
ANALISIS DE LOS DATOS

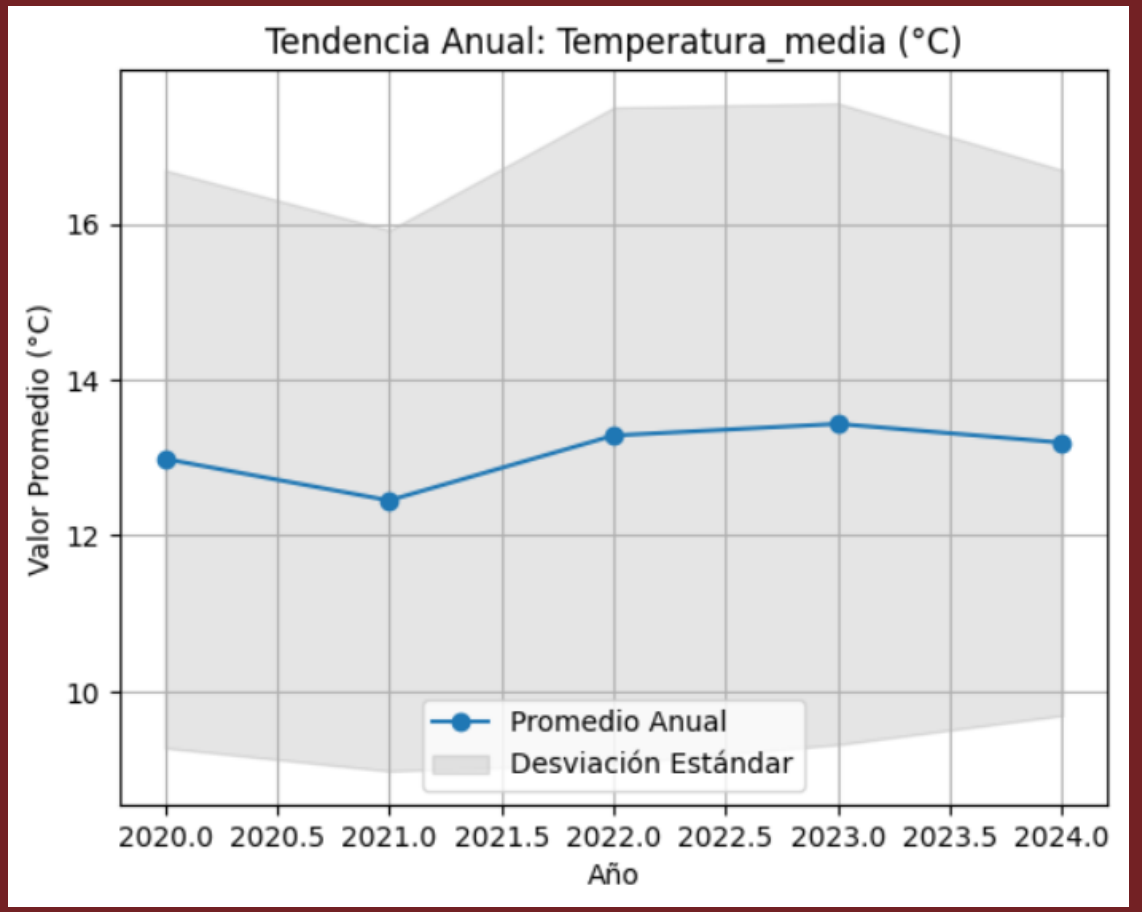




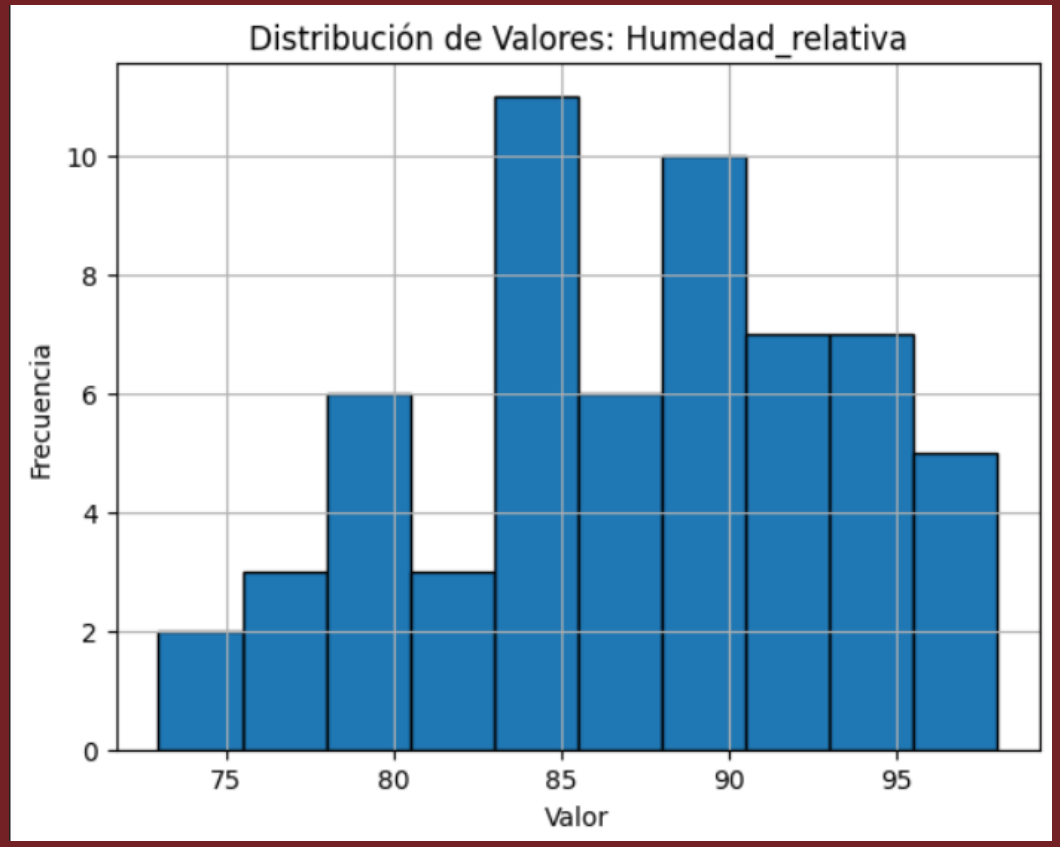


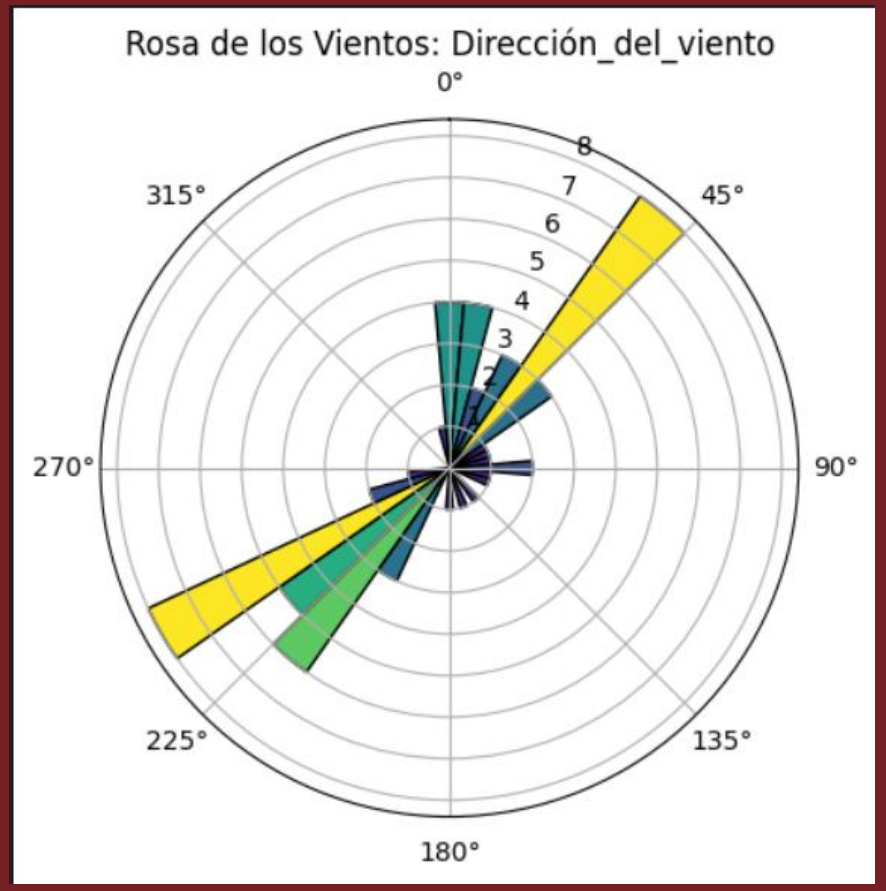
ANÁLISIS DE LOS DATOS





ANALISIS DE LOS DATOS





CONCLUSIONES

- Temperaturas en aumento
- Disminución en las precipitaciones
- Secciones favorables de viento
- Humedad no ptima pero aceptable
- Potencial de elevado rendimiento
- Instalación domestica viable