Herdez Forecast Project

Notebook created on: 2024-09-14

In [13]:
```
import pandas as pd
import matplotlib.pyplot as plt
```

In [14]:
```
# dataset
df = pd.read_csv("..\\data\\dataset\\future_forecast_52_weeks.csv")
df.head()
```

Out[14]:

	date	mean	mean_se	mean_ci_lower	mean_ci_upper	Sucursal	Cadena	Recurso
0	2021-05-24	291.712553	148.440470	0.774577	582.650528	Norte 286	SA	68524 Alimentos
1	2021-05-31	270.899519	149.223864	-21.573880	563.372919	Norte 286	SA	68524 Alimentos
2	2021-06-07	245.074186	149.672052	-48.277646	538.426018	Norte 286	SA	68524 Alimentos
3	2021-06-14	272.581109	150.110929	-21.630907	566.793124	Norte 286	SA	68524 Alimentos
4	2021-06-21	302.708093	150.548300	7.638847	597.777339	Norte 286	SA	68524 Alimentos

In [15]:
```
df["date"] = pd.to_datetime(df["date"])

plt.figure(figsize=(10, 6))

plt.plot(df["date"], df["mean"], label="(Mean) Forecast", color="blue", marker="o")
```

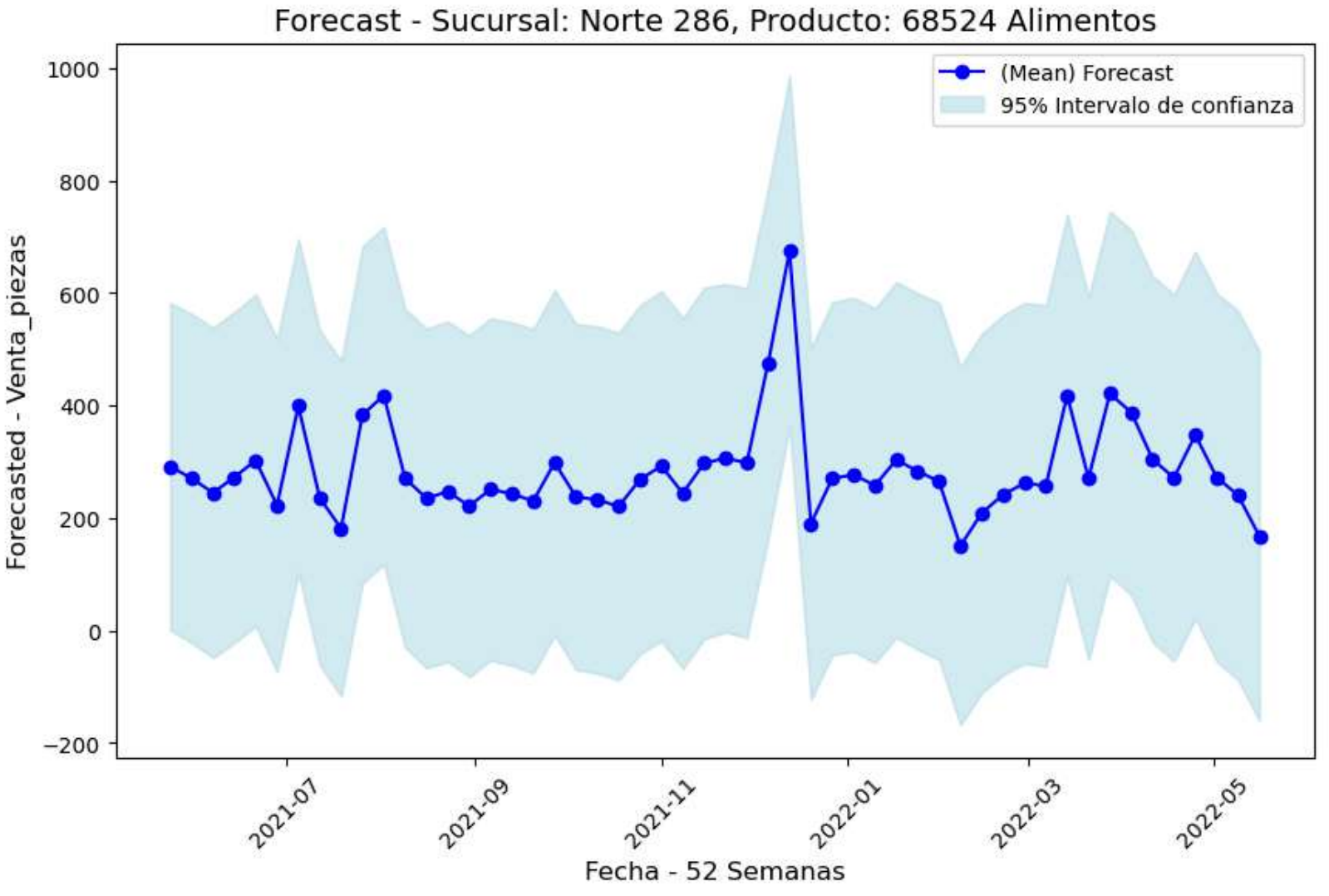
```
plt.fill_between(
    df["date"],
    df["mean_ci_lower"],
    df["mean_ci_upper"],
    color="lightblue",
    alpha=0.5,
    label="95% Intervalo de confianza",
)


plt.title("Forecast - Sucursal: Norte 286, Producto: 68524 Alimentos", fontsize=14)
plt.xlabel("Fecha - 52 Semanas", fontsize=12)
plt.ylabel("Forecasted - Venta_piezas", fontsize=12)


plt.xticks(rotation=45)


plt.legend()


plt.show()
```


Forecast - Sucursal: Norte 286, Producto: 68524 Alimentos
(Mean) Forecast
95% Intervalo de confianza
Forecasted - Venta_piezas
1000
800
600
400
200
0
−200
2021-07
2021-09
2021-11
2022-01
2022-03
2022-05
Fecha - 52 Semanas