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!pip install yfinance prophet --quiet
import yfinance as yf
import pandas as pd
from prophet import Prophet
import matplotlib.pyplot as plt
df = yf.download('TCS.NS', start='2020-01-01', end='2024-01-01')
df = df.reset_index()[['Date', 'Close']]
df.columns = ['ds', 'y']
model = Prophet()
model.fit(df)
future = model.make_future_dataframe(periods=30)
forecast = model.predict(future)
model.plot(forecast)
plt.title("TCS Stock Forecast")
plt.xlabel("Date")
plt.ylabel("Price")
plt.show()

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→ /tmp/ipython-input-8-1688675016.py:6: FutureWarning: YF.download() has changed argument auto_adjust default to True
  df = yf.download('TCS.NS', start='2020-01-01', end='2024-01-01')
[*****100%*****] 1 of 1 completed
INFO:prophet:Disabling daily seasonality. Run prophet with daily_seasonality=True to override this.
DEBUG:cmdstanpy:input tempfile: /tmp/tmp3ni3kine/rr78otpj.json
DEBUG:cmdstanpy:input tempfile: /tmp/tmp3ni3kine/lt2094c2.json
DEBUG:cmdstanpy:idx 0
DEBUG:cmdstanpy:running CmdStan, num_threads: None
DEBUG:cmdstanpy:CmdStan args: ['/usr/local/lib/python3.11/dist-packages/prophet/stan_model/prophet_model.bin', 'random', 'seed=20876
06:41:27 - cmdstanpy - INFO - Chain [1] start processing
INFO:cmdstanpy:Chain [1] start processing
06:41:27 - cmdstanpy - INFO - Chain [1] done processing
INFO:cmdstanpy:Chain [1] done processing

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