

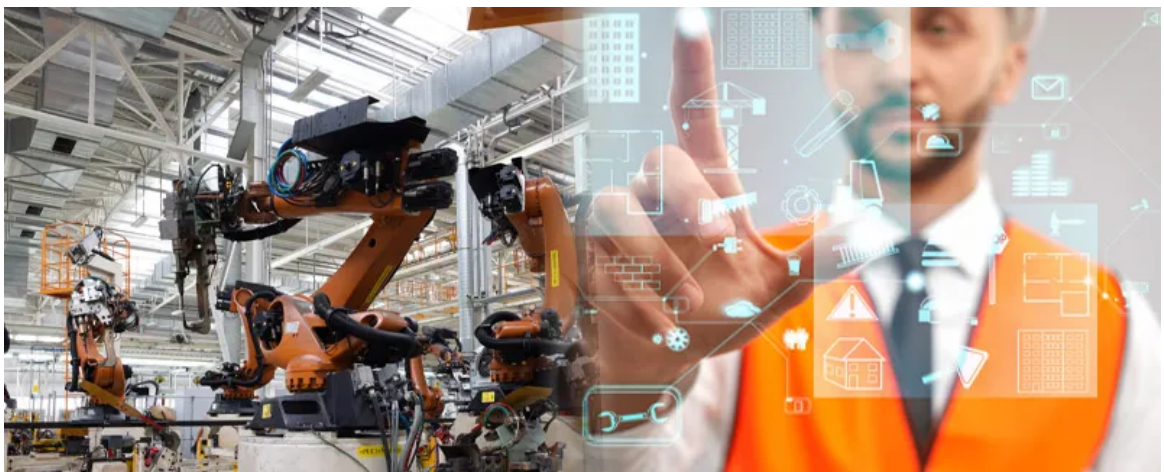
FluxoEnergelA (/github/ViniciusKanh/FluxoEnergelA/tree/main)

/ FluxoEnergelA.ipynb (/github/ViniciusKanh/FluxoEnergelA/tree/main/FluxoEnergelA.ipynb)

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(<https://colab.research.google.com/github/ViniciusKanh/FluxoEnergelA/blob/main/FluxoEnergelA>)

# FluxoEnergelA: Modelo Preditivo de Eficiência Energética Industrial



## Projeto: FluxoEnergelA: Modelo Preditivo de Eficiência Energética Industrial

### Resumo

(IA) para prever o consumo de energia na indústria siderúrgica. Utilizando dados históricos da DAEWOO Steel Co. Ltd, na Coreia do Sul, este projeto propõe a criação de um sistema preditivo que correlaciona o consumo energético com diversos fatores operacionais e ambientais. Através do uso de técnicas avançadas de machine learning, busca-se uma otimização do consumo de energia, contribuindo assim para a sustentabilidade e a redução de custos no setor.

### Introdução

A eficiência energética é um dos principais desafios da indústria siderúrgica, que é intensiva no uso de energia. Diante da crescente demanda por práticas sustentáveis, torna-se crucial implementar soluções que permitam uma gestão mais eficiente dos recursos energéticos.

Este projeto foca no desenvolvimento de um modelo preditivo baseado em IA para antecipar o consumo de energia, permitindo uma tomada de decisão mais informada e estratégica.

## Objetivos

### Geral

Desenvolver um modelo de IA para prever o consumo de energia na indústria siderúrgica, visando a otimização do uso de energia e a promoção de práticas sustentáveis.

### Específicos

- Realizar uma análise exploratória detalhada dos dados disponíveis.
- Identificar as principais variáveis que influenciam o consumo de energia na produção siderúrgica.
- Implementar e comparar diferentes algoritmos de machine learning para desenvolver o modelo preditivo.
- Validar o modelo utilizando técnicas de cross-validation e ajuste fino de hiperparâmetros.
- Propor recomendações para a gestão eficiente de energia baseada nos resultados do modelo.

## Metodologia

O projeto adotará uma abordagem quantitativa, com a utilização de dados históricos de consumo de energia e variáveis operacionais da DAEWOO Steel Co. Ltd. Será realizada uma EDA para verificar a qualidade dos dados e prepará-los para a modelagem. Posteriormente, serão selecionados e treinados modelos de regressão, incluindo regressão linear, árvores de decisão e redes neurais. A performance dos modelos será avaliada com base em métricas como RMSE (Root Mean Square Error) e  $R^2$  (Coeficiente de Determinação).

## Resultados Esperados

Espera-se desenvolver um modelo com alta precisão preditiva, que possa ser utilizado para tomar decisões proativas na gestão de energia. Além disso, o projeto visa contribuir para a literatura científica, fornecendo insights sobre a aplicabilidade de técnicas de IA no setor siderúrgico e destacando as variáveis mais significativas para a previsão de consumo energético.

## Considerações Finais

O sucesso deste projeto pode resultar em um avanço significativo na aplicação de IA para eficiência energética na indústria siderúrgica, com implicações diretas para a redução de custos e o impacto ambiental do setor.

Autor

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Github (<https://github.com/ViniciusKanh>)

Monstando driver no colab

```
In [1]: from google.colab import drive
drive.mount('/content/drive')
```

Mounted at /content/drive

## Analizando a Base de Dados

```
In [11]: import pandas as pd
df = pd.read_csv('/content/drive/My Drive/0-Dataset/Previsão de consumo de energia c

# Visualizando as primeiras linhas do conjunto de dados
display(df.head())

# Verificando os tipos de dados e valores ausentes
display(df.info())

# Estatísticas descritivas para variáveis numéricas
display(df.describe())
```

	date	Usage_kWh	Lagging_Current_Reactive.Power_kVarh	Leading_Current_Reactive_Power_k
0	01/01/2018 00:15	3.17		2.95
1	01/01/2018 00:30	4.00		4.46
2	01/01/2018 00:45	3.24		3.28
3	01/01/2018 01:00	3.31		3.56
4	01/01/2018 01:15	3.82		4.50

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 35040 entries, 0 to 35039
Data columns (total 11 columns):
#   Column                                     Non-Null Count  Dtype
---  -
0   date                                     35040 non-null  object
1   Usage_kWh                               35040 non-null  float64
2   Lagging_Current_Reactive.Power_kVarh    35040 non-null  float64
3   Leading_Current_Reactive_Power_kVarh    35040 non-null  float64
4   CO2(tcO2)                               35040 non-null  float64
5   Lagging_Current_Power_Factor            35040 non-null  float64
6   Leading_Current_Power_Factor            35040 non-null  float64
7   NSM                                       35040 non-null  int64
8   WeekStatus                               35040 non-null  object
9   Day_of_week                             35040 non-null  object
10  Load_Type                               35040 non-null  object
dtypes: float64(6), int64(1), object(4)
memory usage: 2.9+ MB
None
```

	Usage_kWh	Lagging_Current_Reactive.Power_kVarh	Leading_Current_Reactive_Power_kVarh
count	35040.000000	35040.000000	35040.000000
mean	27.386892	13.035384	3.870949
std	33.444380	16.306000	7.424463
min	0.000000	0.000000	0.000000
25%	3.200000	2.300000	0.000000
50%	4.570000	5.000000	0.000000
75%	51.237500	22.640000	2.090000
max	157.180000	96.910000	27.760000

## Contagem de valores para variáveis categóricas

```
In [12]: for col in df.select_dtypes(include='object').columns:
          print(df[col].value_counts())
```

```

01/01/2018 00:15    1
01/09/2018 08:45    1
01/09/2018 07:15    1
01/09/2018 07:30    1
01/09/2018 07:45    1
..
02/05/2018 14:45    1
02/05/2018 14:30    1
02/05/2018 14:15    1
02/05/2018 14:00    1
31/12/2018 00:00    1
Name: date, Length: 35040, dtype: int64
Weekday      25056
Weekend       9984
Name: WeekStatus, dtype: int64
Monday        5088
Tuesday        4992
Wednesday      4992
Thursday        4992
Friday          4992
Saturday        4992
Sunday          4992
Name: Day_of_week, dtype: int64
Light_Load     18072
Medium_Load     9696
Maximum_Load    7272
Name: Load_Type, dtype: int64

```

## Verificando valores ausentes

```
In [10]: display(df.isnull().sum())
```

```

date                                0
Usage_kWh                          0
Lagging_Current_Reactive.Power_kVarh  0
Leading_Current_Reactive_Power_kVarh  0
CO2(tCO2)                          0
Lagging_Current_Power_Factor        0
Leading_Current_Power_Factor         0
NSM                                  0
WeekStatus                          0
Day_of_week                         0
Load_Type                          0
dtype: int64

```

## Análise Exploratória de Dados (EDA)

A base de dados "Steel Industry Energy Consumption Prediction" contém 35.040 registros, cada um com 11 atributos. A seguir, apresentamos uma análise detalhada dessas variáveis.

### Variáveis do Conjunto de Dados:

- **date:** A data e hora da observação, representada como um objeto. Não há valores nulos, indicando um registro completo no período considerado.
- **Usage\_kWh:** O consumo de energia em kWh, com um valor médio de 27.39 kWh e um desvio padrão de 33.44 kWh, sugerindo uma variação significativa no consumo de energia.

- **Lagging\_Current\_Reactive.Power\_kVarh**: Poder reativo retardado em kVarh, média de 13.04 kVarh e desvio padrão de 16.31 kVarh.
- **Leading\_Current\_Reactive\_Power\_kVarh**: Poder reativo avançado em kVarh, média de 3.87 kVarh e desvio padrão de 7.42 kVarh.
- **CO2(tCO2)**: Concentração de CO2 em partes por milhão (ppm), com uma média quase nula de 0.0115 ppm e desvio padrão de 0.0161 ppm.
- **Lagging\_Current\_Power\_Factor**: Fator de potência retardado, em percentual, com média de 80.58% e desvio padrão de 18.92%.
- **Leading\_Current\_Power\_Factor**: Fator de potência avançado, também em percentual, com média de 84.37% e desvio padrão de 30.46%.
- **NSM**: Número de segundos desde a meia-noite, um inteiro que varia uniformemente ao longo do dia.
- **WeekStatus**: Uma variável categórica que indica se o registro é de um dia de semana (Weekday) ou fim de semana (Weekend).
- **Day\_of\_week**: Dia da semana da observação, uma variável categórica com os dias da semana de domingo a sábado.
- **Load\_Type**: Tipo de carga, uma variável categórica que descreve o nível de carga como Light Load, Medium Load ou Maximum Load.

## Observações:

- Não há valores ausentes em nenhuma das variáveis, o que é ideal para análise e modelagem.
- A variação no consumo de energia (Usage\_kWh) sugere diferentes padrões de operação que podem ser investigados para previsão.
- As variáveis de poder reativo (Lagging\_Current\_Reactive.Power\_kVarh e Leading\_Current\_Reactive\_Power\_kVarh) podem fornecer insights sobre a eficiência e a qualidade da energia utilizada.
- O fator de potência (Lagging\_Current\_Power\_Factor e Leading\_Current\_Power\_Factor) é um indicador importante de eficiência que deve ser considerado na modelagem.
- As variáveis categóricas (WeekStatus, Day\_of\_week, Load\_Type) podem ser codificadas adequadamente para usar em modelos preditivos.

## Ações Futuras:

A partir desta análise preliminar, recomenda-se a realização de uma análise mais aprofundada, considerando a visualização de dados, análise de outliers e a correlação entre as variáveis. Com essas informações, será possível construir um modelo preditivo robusto para a previsão do consumo de energia na indústria siderúrgica.

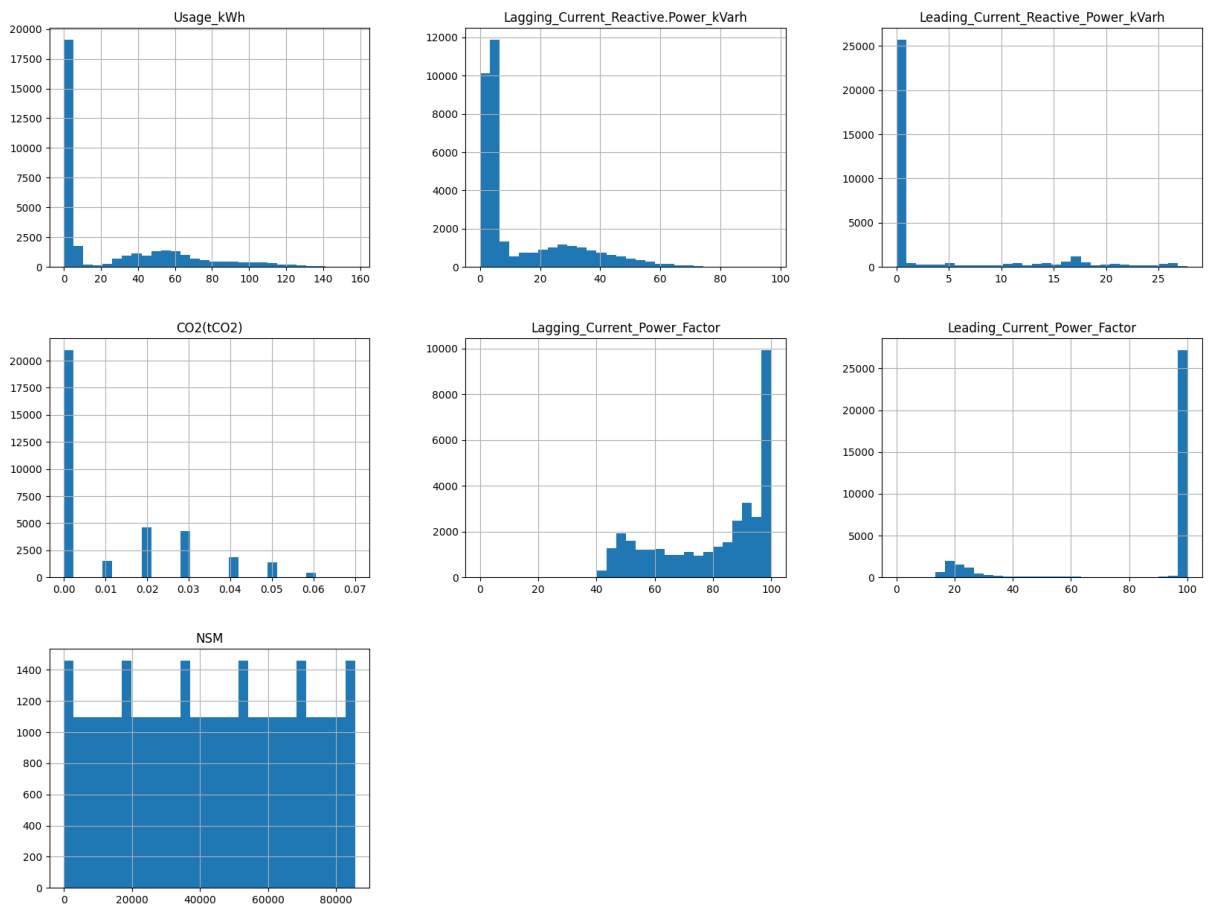
```
In [8]: import matplotlib.pyplot as plt
import seaborn as sns

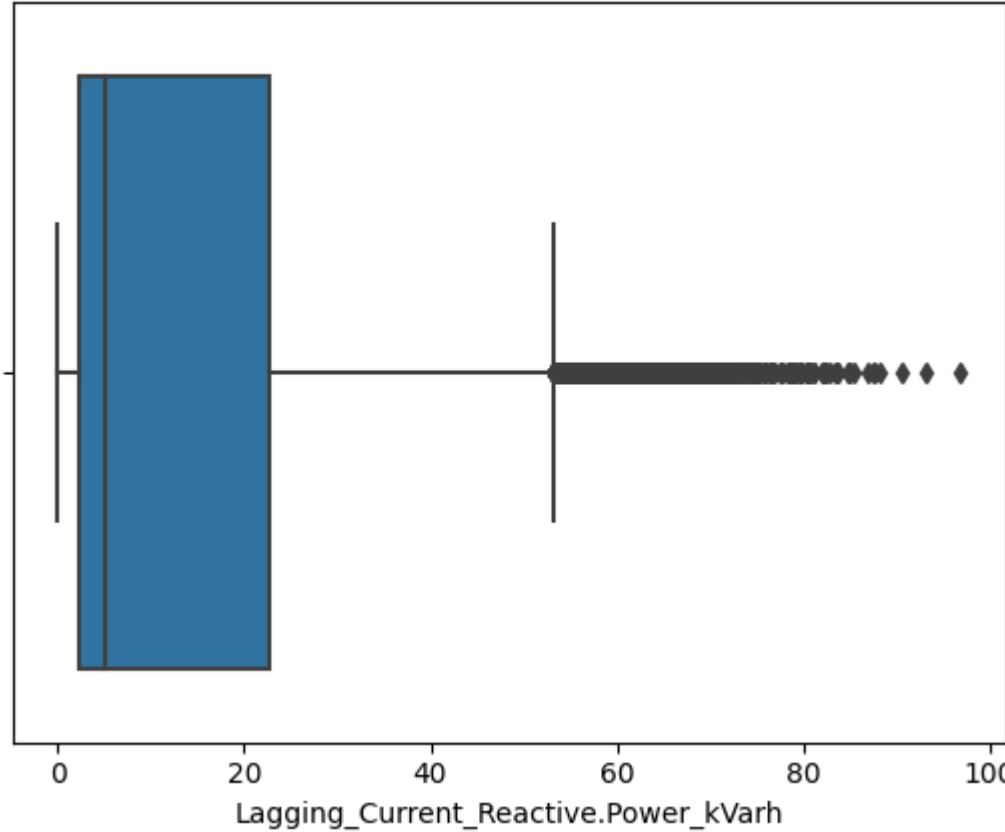
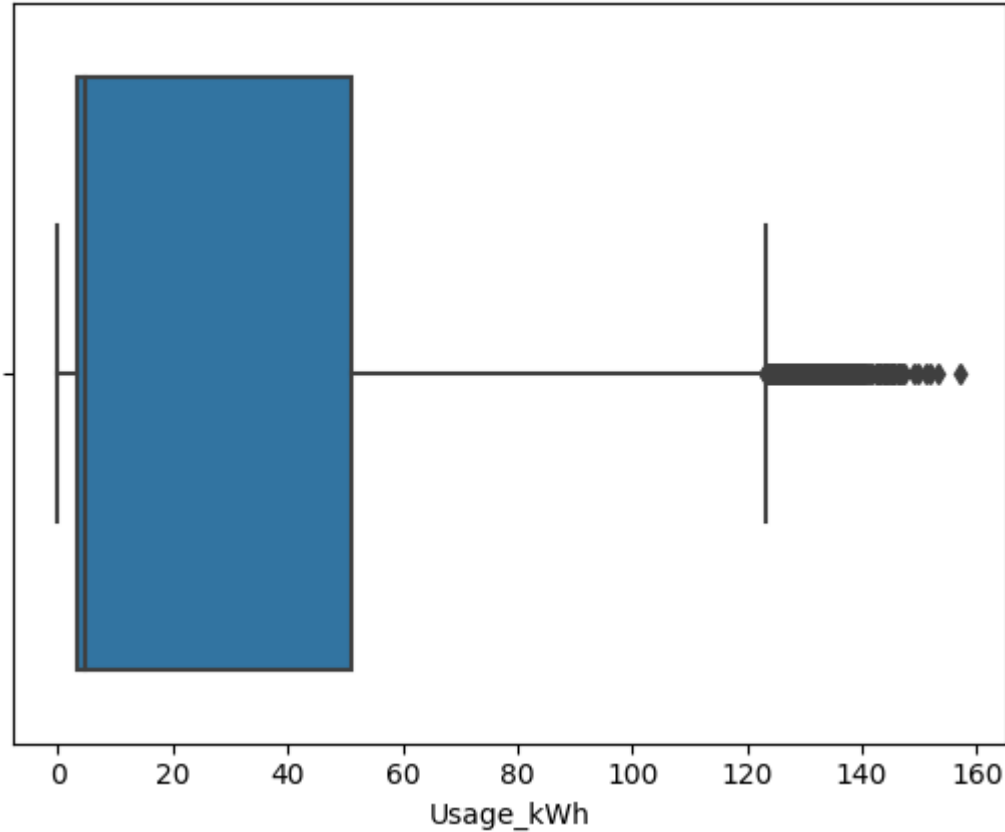
# Distribuição de variáveis contínuas
df.hist(bins=30, figsize=(20, 15))
plt.show()

# Boxplots para identificação de outliers
for col in df.select_dtypes(include=['float64', 'int']):
    sns.boxplot(x=df[col])
    plt.show()

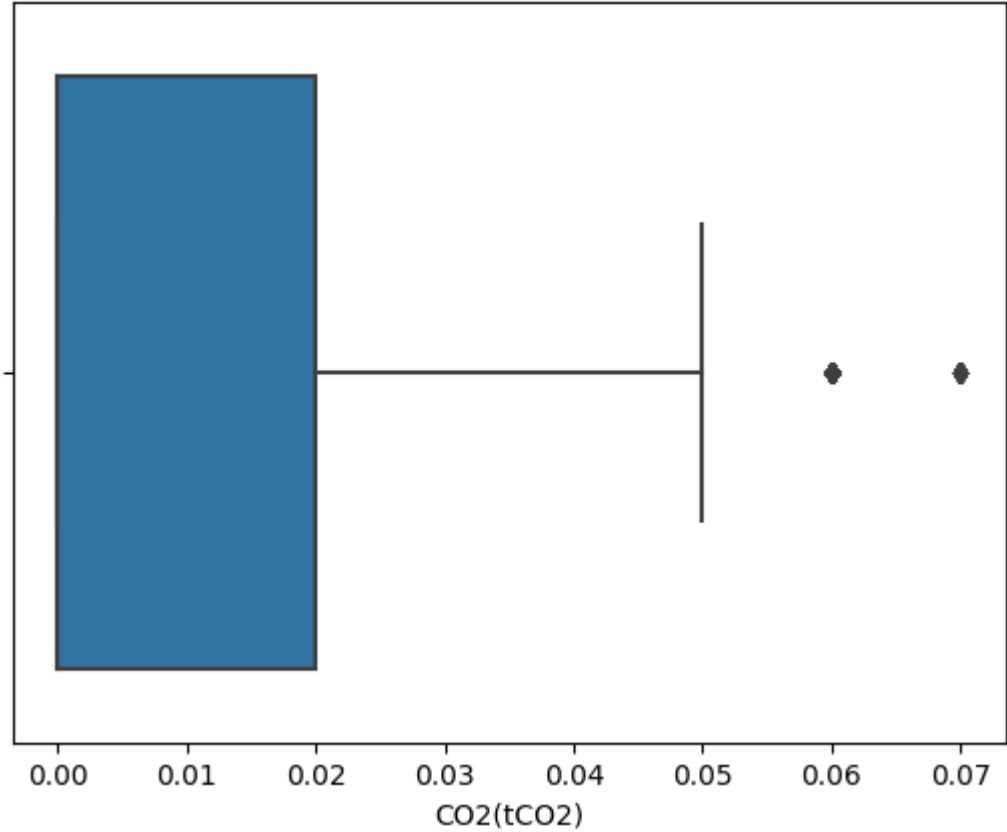
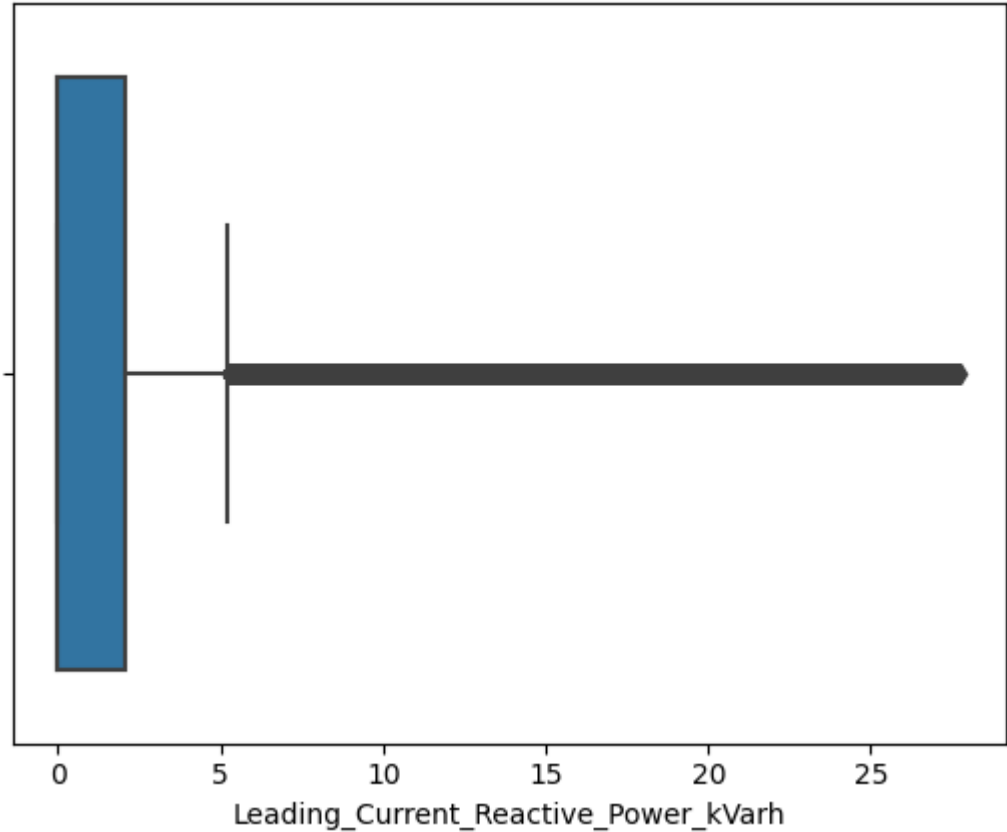
# Matriz de correlação
corr = df.corr()
sns.heatmap(corr, annot=True, cmap='coolwarm')
plt.show()

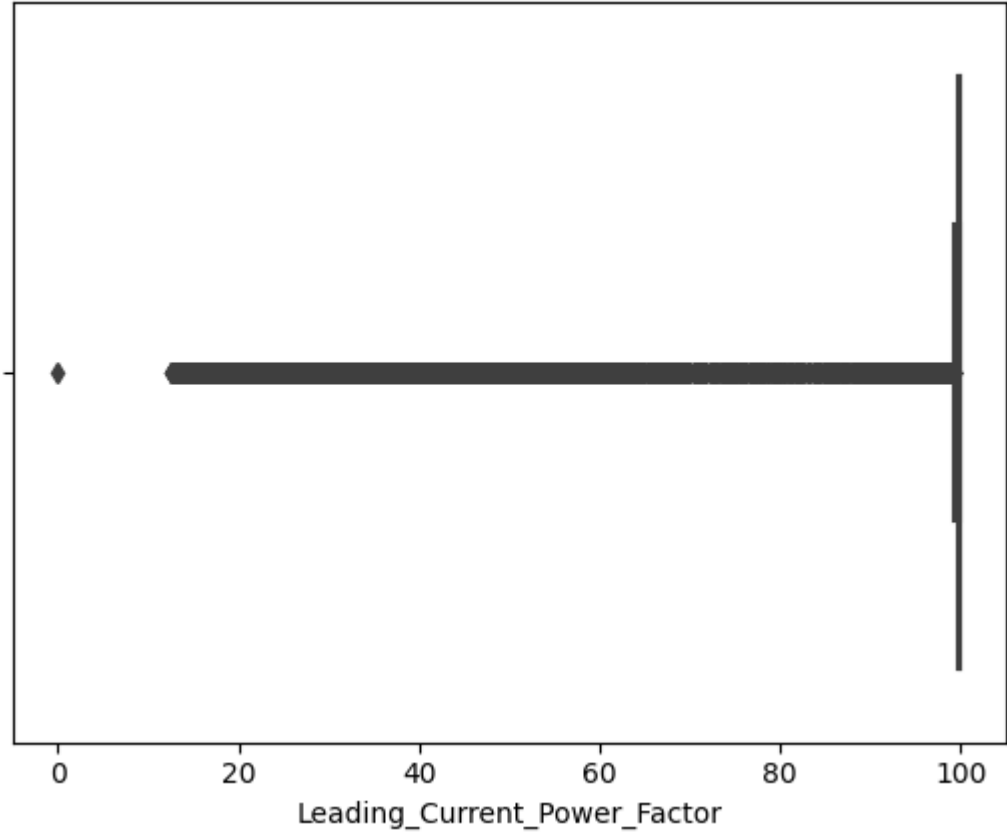
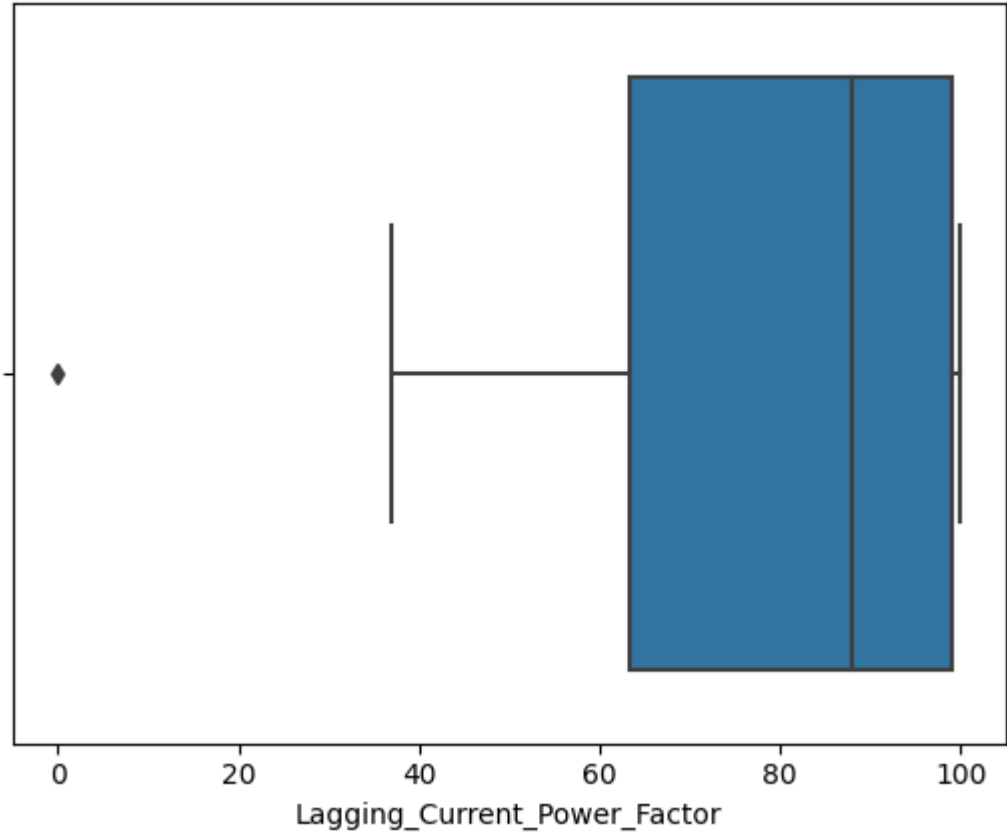
# Gráficos de dispersão entre variáveis com alta correlação
sns.pairplot(df.select_dtypes(include=['float64', 'int']))
plt.show()
```

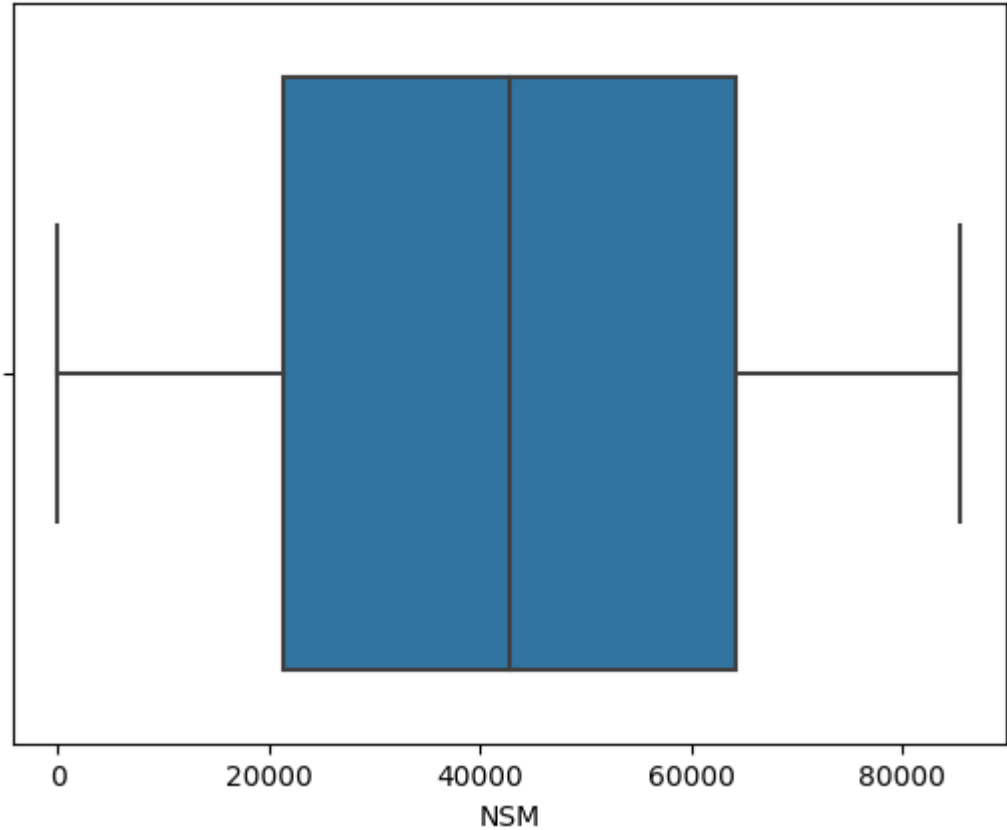






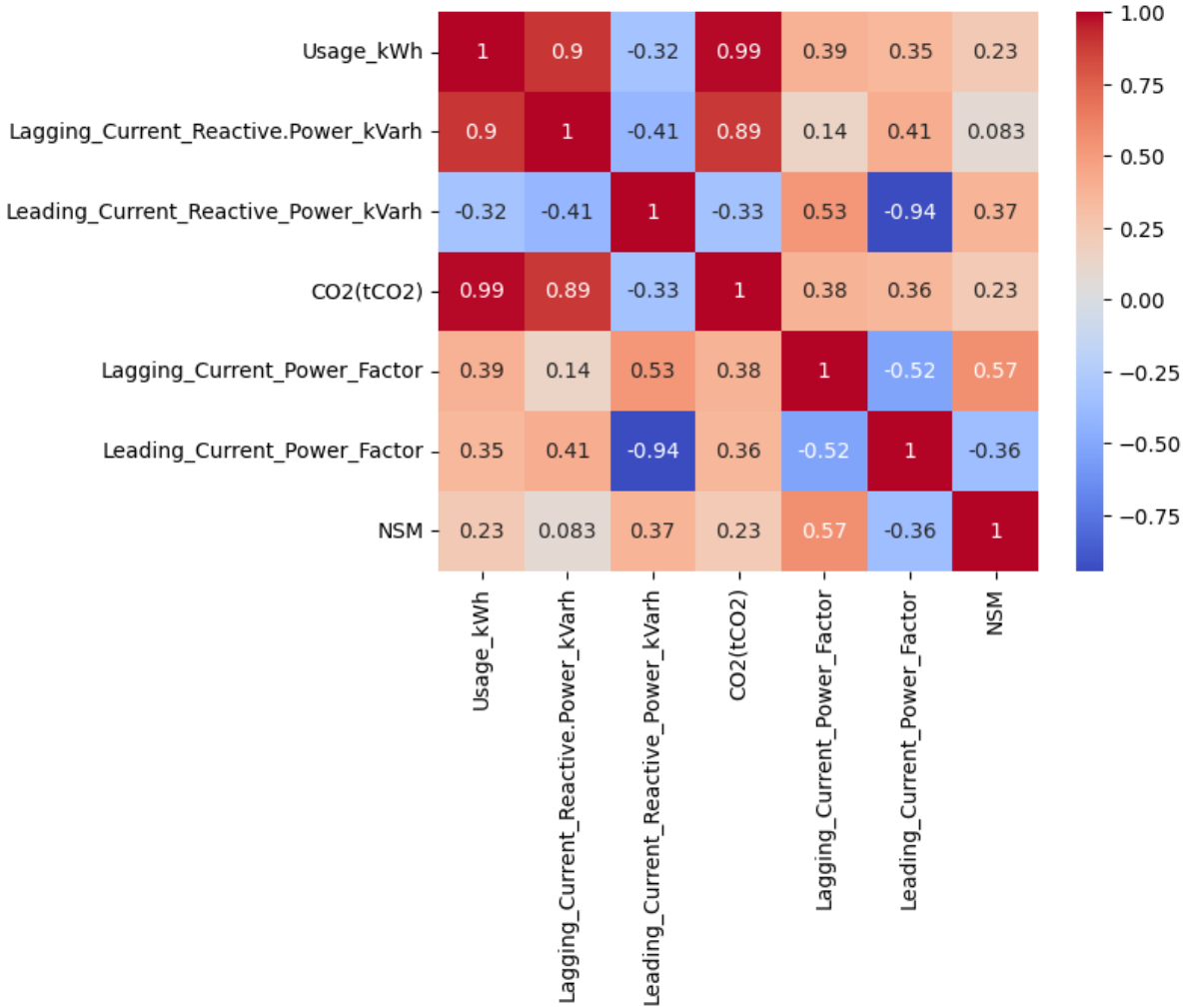


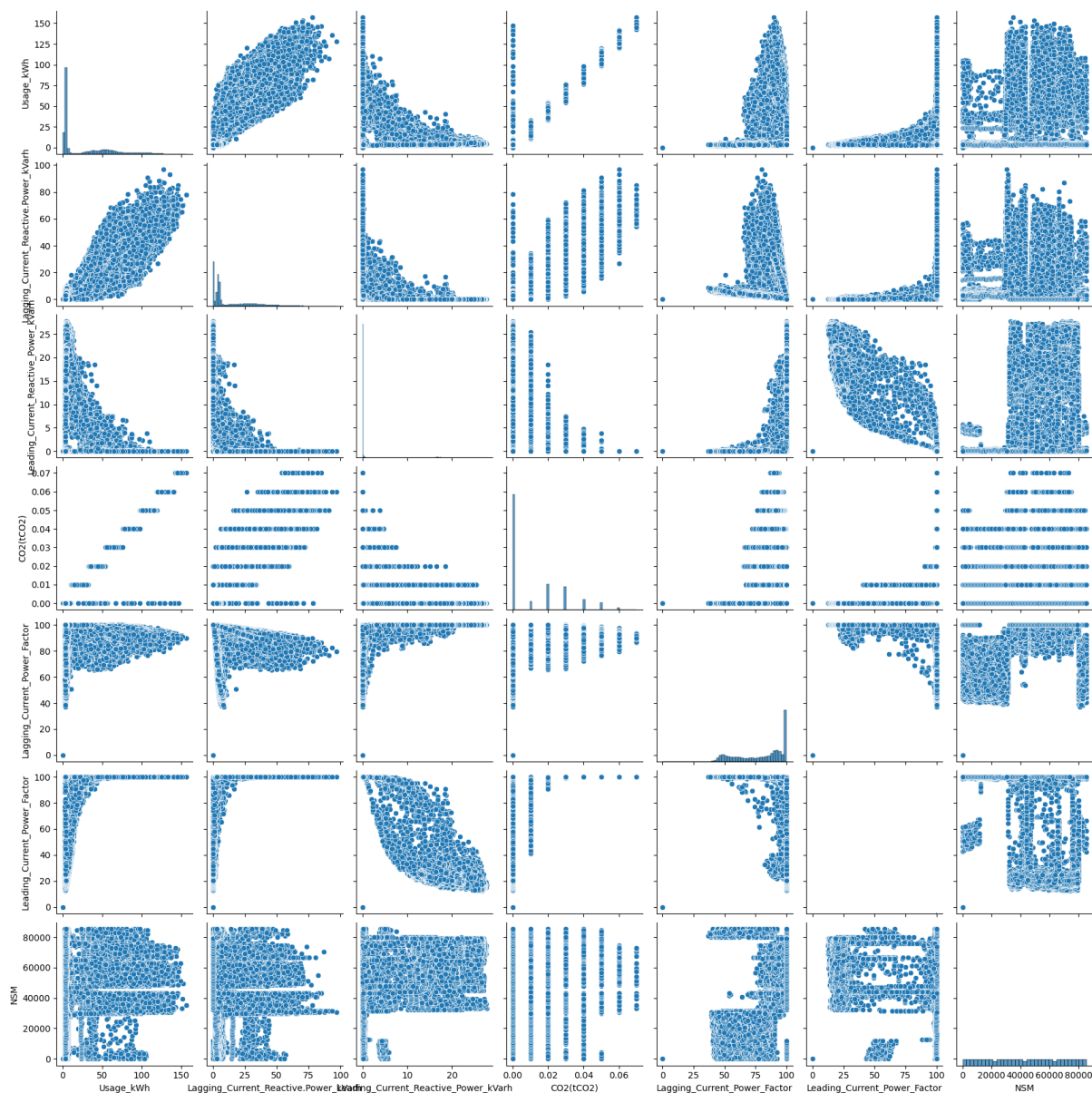




<ipython-input-8-5b4111fd4aa5>:14: FutureWarning: The default value of numeric\_only in DataFrame.corr is deprecated. In a future version, it will default to False. Select only valid columns or specify the value of numeric\_only to silence this warning.

```
corr = df.corr()
```





## Análise da Matriz de Correlação

A matriz de correlação fornece insights significativos sobre as relações lineares entre as variáveis numéricas do dataset. Abaixo estão os pontos-chave observados na matriz:

### Correlações Fortes

- **Usage\_kWh e CO2(tCO2):** Correlação muito alta (aprox. 0.99), sugerindo que o consumo de energia está diretamente associado às emissões de CO2, o que é esperado na indústria siderúrgica devido à combustão de combustíveis fósseis.
- **Usage\_kWh e Lagging\_Current\_Reactive.Power\_kVarh:** Também apresentam uma correlação muito alta (aprox. 0.9), indicando que o poder reativo é uma grande parte do consumo de energia.
- **Lagging\_Current\_Power\_Factor e Leading\_Current\_Power\_Factor:** Correlação negativa substancial (aprox. -0.52), mostrando que quando o fator de potência retardado aumenta, o fator de potência avançado tende a diminuir, o que pode indicar uma compensação no sistema de energia.

## Correlações Moderadas

- **Leading\_Current\_Reactive\_Power\_kVarh e Leading\_Current\_Power\_Factor:** Correlação negativa moderada (aprox. -0.94), o que faz sentido, pois um aumento no poder reativo avançado geralmente resulta em um menor fator de potência avançado.
- **CO2(tCO2) e Lagging\_Current\_Reactive.Power\_kVarh:** Correlação positiva moderada (aprox. 0.89), o que pode indicar que maior reatividade na corrente está associada a maiores emissões de CO2.

## Correlações Baixas ou Insignificantes

- **NSM (Número de Segundos desde a Meia-noite):** Exibe correlações baixas com todas as variáveis, o que sugere que o tempo do dia tem um impacto menor nas variáveis de consumo de energia e fator de potência, pelo menos de forma linear.

## Implicações

Estas correlações sugerem pontos potenciais de investigação para a eficiência energética e gestão ambiental. Por exemplo, a forte correlação entre o consumo de kWh e a emissão de CO2 destaca a importância de estratégias de redução de consumo para mitigar o impacto ambiental.

## Ações Recomendadas

- Explorar estratégias de gerenciamento de carga para reduzir o consumo de energia e as emissões de CO2.
- Avaliar a eficiência do sistema de energia e buscar formas de melhorar os fatores de potência, possivelmente através de correção de fator de potência ou equipamentos mais eficientes.
- Investigar as causas das emissões de CO2 além do consumo de energia, como os processos de combustão e operacionais específicos da indústria siderúrgica.

Estas descobertas devem ser complementadas por uma análise mais profunda, incluindo métodos não lineares e modelagem preditiva, para entender totalmente as dinâmicas do sistema de energia e suas implicações.

## Pré Processamento

```

In [15]: import pandas as pd
from sklearn.preprocessing import StandardScaler, OneHotEncoder
from sklearn.compose import ColumnTransformer
from sklearn.impute import SimpleImputer
from sklearn.pipeline import Pipeline
from sklearn.model_selection import train_test_split

# Separar as variáveis independentes (features) e a variável dependente (target)
X = df.drop('Load_Type', axis=1) # Supondo que 'Load_Type' seja o target
y = df['Load_Type']

# Pré-processamento para variáveis numéricas
numeric_features = X.select_dtypes(include=['int64', 'float64']).columns
numeric_transformer = Pipeline(steps=[
    ('imputer', SimpleImputer(strategy='median')), # Preencher valores ausentes com
    ('scaler', StandardScaler()) # Normalizar as variáveis numéricas
])

# Pré-processamento para variáveis categóricas
categorical_features = X.select_dtypes(include=['object']).drop(['date'], axis=1).columns
categorical_transformer = Pipeline(steps=[
    ('imputer', SimpleImputer(strategy='constant', fill_value='missing')), # Preencher
    ('onehot', OneHotEncoder(handle_unknown='ignore')) # Aplicar one-hot encoding
])

# Combinar os transformadores
preprocessor = ColumnTransformer(
    transformers=[
        ('num', numeric_transformer, numeric_features),
        ('cat', categorical_transformer, categorical_features)
    ])

# Aplicar o pré-processamento
X_processed = preprocessor.fit_transform(X)

# Converter para DataFrame para facilitar a manipulação e salvar em CSV
# As colunas categóricas precisam ser tratadas devido ao one-hot encoding
ohe_categories = preprocessor.named_transformers_['cat'].named_steps['onehot'].get_feature_names_out()
new_columns = list(numeric_features) + list(ohe_categories)

# Criar um novo DataFrame com as colunas processadas
X_processed_df = pd.DataFrame(X_processed, columns=new_columns)

# Concatenar com a coluna 'date' e a variável dependente
final_df = pd.concat([df['date'], X_processed_df, y], axis=1)

# Salvar em novo CSV
final_df.to_csv('/content/drive/My Drive/0-Dataset/Previsão de consumo de energia da

```

# Analizando Base de Dados Processada

```
In [17]: import pandas as pd
df = pd.read_csv('/content/drive/My Drive/0-Dataset/Previsão de consumo de energia c

# Visualizando as primeiras linhas do conjunto de dados
display(df.head())

# Verificando os tipos de dados e valores ausentes
display(df.info())

# Estatísticas descritivas para variáveis numéricas
display(df.describe())
```

	date	Usage_kWh	Lagging_Current_Reactive.Power_kVarh	Leading_Current_Reactive_Power_k
0	01/01/2018 00:15	-0.724105	-0.618516	-0.52
1	01/01/2018 00:30	-0.699287	-0.525911	-0.52
2	01/01/2018 00:45	-0.722012	-0.598278	-0.52
3	01/01/2018 01:00	-0.719919	-0.581106	-0.52
4	01/01/2018 01:15	-0.704669	-0.523458	-0.52

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 35040 entries, 0 to 35039
Data columns (total 18 columns):
```

#	Column	Non-Null Count	Dtype
0	date	35040 non-null	object
1	Usage_kWh	35040 non-null	float64
2	Lagging_Current_Reactive.Power_kVarh	35040 non-null	float64
3	Leading_Current_Reactive_Power_kVarh	35040 non-null	float64
4	CO2(tCO2)	35040 non-null	float64
5	Lagging_Current_Power_Factor	35040 non-null	float64
6	Leading_Current_Power_Factor	35040 non-null	float64
7	NSM	35040 non-null	float64
8	WeekStatus_Weekday	35040 non-null	float64
9	WeekStatus_Weekend	35040 non-null	float64
10	Day_of_week_Friday	35040 non-null	float64
11	Day_of_week_Monday	35040 non-null	float64
12	Day_of_week_Saturday	35040 non-null	float64
13	Day_of_week_Sunday	35040 non-null	float64
14	Day_of_week_Thursday	35040 non-null	float64
15	Day_of_week_Tuesday	35040 non-null	float64
16	Day_of_week_Wednesday	35040 non-null	float64
17	Load_Type	35040 non-null	object

```
dtypes: float64(16), object(2)
```

```
memory usage: 4.8+ MB
```

```
None
```

	Usage_kWh	Lagging_Current_Reactive.Power_kVarh	Leading_Current_Reactive_Power_kVarh
<b>count</b>	3.504000e+04	3.504000e+04	3.504000e+04
<b>mean</b>	1.297795e-16	-5.515629e-17	6.488975e-18
<b>std</b>	1.000014e+00	1.000014e+00	1.000014e+00
<b>min</b>	-8.188905e-01	-7.994339e-01	-5.213850e-01
<b>25%</b>	-7.232078e-01	-6.583795e-01	-5.213850e-01
<b>50%</b>	-6.822437e-01	-4.927940e-01	-5.213850e-01
<b>75%</b>	7.131526e-01	5.890319e-01	-2.398792e-01
<b>max</b>	3.880920e+00	5.143862e+00	3.217659e+00

## Análise do Dataset Processado

### Visão Geral

O conjunto de dados processado contém 35.040 entradas, com 18 colunas após o pré-processamento. As variáveis numéricas foram normalizadas, e as categóricas transformadas via one-hot encoding.

### Variáveis Numéricas

- **Usage\_kWh**: Energia utilizada, normalizada. Média ~ 0, Desvio padrão ~ 1.
- **Lagging\_Current\_Reactive.Power\_kVarh**: Poder reativo retardado, normalizado.
- **Leading\_Current\_Reactive\_Power\_kVarh**: Poder reativo avançado, normalizado.
- **CO2(tCO2)**: Concentração de CO2, normalizada.
- **Lagging\_Current\_Power\_Factor**: Fator de potência retardado, normalizado.
- **Leading\_Current\_Power\_Factor**: Fator de potência avançado, normalizado.
- **NSM**: Número de segundos desde a meia-noite, normalizado.

### Variáveis Categóricas (One-Hot Encoded)

- **WeekStatus\_Weekday**: Indica registros em dias de semana.
- **WeekStatus\_Weekend**: Indica registros em fins de semana.
- **Day\_of\_week\_\***: Indica o dia específico da semana.
- **Load\_Type**: Categoria de carga (variável alvo, não normalizada).

### Observações

- Ausência de valores nulos após o pré-processamento.
- A coluna `date` mantém seu formato original.
- As variáveis numéricas estão padronizadas para facilitar a aplicação em modelos de aprendizado de máquina.



## Próximos Passos

- Realizar análises visuais para explorar as distribuições e relações entre variáveis.
- Utilizar a coluna `date` para extrair características temporais adicionais.
- Avaliar a correlação entre variáveis numéricas e a variável alvo para identificar influenciadores chave.
- Preparar a variável alvo `Load_Type` para modelagem, se necessário.

## Considerações Finais

O dataset está agora pronto para ser aplicado em modelos de machine learning, com as variáveis adequadamente preparadas para tarefas de classificação ou regressão.

```

In [45]: import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import StandardScaler, OneHotEncoder
from sklearn.compose import ColumnTransformer
from sklearn.ensemble import RandomForestClassifier
from sklearn.metrics import accuracy_score, classification_report
from sklearn.pipeline import Pipeline
import pickle

# Carregar o dataset
df = pd.read_csv('/content/drive/My Drive/0-Dataset/Previsão de consumo de energia c

# Remover a coluna 'date' se ela não for usada como variável preditiva
df.drop('date', axis=1, inplace=True)

# Separar o dataset em features (X) e target (y)
X = df.drop('Load_Type', axis=1)
y = df['Load_Type']

# Dividir os dados em conjuntos de treino e teste
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_stat

# Listas das colunas categóricas e numéricas
categorical_columns = ['WeekStatus', 'Day_of_week']
numerical_columns = X.select_dtypes(include=['float64', 'int64']).columns.tolist()

# Criar o transformador de colunas para processamento de dados categóricos e numéricos
preprocessor = ColumnTransformer(
    transformers=[
        ('num', StandardScaler(), numerical_columns),
        ('cat', OneHotEncoder(), categorical_columns)
    ])

# Criar o pipeline com pré-processamento e o modelo
pipeline = Pipeline(steps=[
    ('preprocessor', preprocessor),
    ('classifier', RandomForestClassifier(n_estimators=100, random_state=42))
])

# Treinar o modelo com dados de treino
pipeline.fit(X_train, y_train)

# Fazer previsões no conjunto de teste
y_pred = pipeline.predict(X_test)

# Avaliar o modelo
accuracy = accuracy_score(y_test, y_pred)
class_report = classification_report(y_test, y_pred)
print(f'Accuracy: {accuracy}')
print(f'Classification Report: \n{class_report}')

# Salvar o pipeline completo (inclui pré-processamento e o modelo)
with open('/content/drive/My Drive/0-Dataset/Previsão de consumo de energia da indús
    pickle.dump(pipeline, file)

print("Pipeline salvo com sucesso!")

```

Accuracy: 0.9096746575342466

Classification Report:

	precision	recall	f1-score	support
Light_Load	0.98	0.98	0.98	3572
Maximum_Load	0.83	0.84	0.83	1499
Medium_Load	0.85	0.83	0.84	1937
accuracy			0.91	7008
macro avg	0.88	0.88	0.88	7008
weighted avg	0.91	0.91	0.91	7008

Pipeline salvo com sucesso!

## Desempenho Geral

- **Acurácia:** O modelo alcançou uma acurácia de aproximadamente 90.96%, indicando um alto nível de precisão global.

## Desempenho por Classe

### Classe 0 (provavelmente 'Light\_Load'):

- **Precisão:** Cerca de 97%, o que indica alta confiabilidade nas previsões desta classe.
- **Recall:** Cerca de 98%, mostrando que o modelo identifica quase todos os casos verdadeiros da classe 0.
- **F1-Score:** Cerca de 98%, refletindo um equilíbrio excelente entre precisão e capacidade de recuperação.

### Classe 1 (provavelmente 'Medium\_Load'):

- **Precisão:** Cerca de 85%, sugerindo uma taxa maior de falsos positivos em comparação à classe 0.
- **Recall:** Cerca de 83%, indicando que o modelo captura a maioria dos casos verdadeiros desta classe.
- **F1-Score:** Cerca de 84%, mostrando um bom equilíbrio entre precisão e recall.

### Classe 2 (provavelmente 'Maximum\_Load'):

- **Precisão:** Cerca de 83%, similar à classe 1, o que pode sinalizar alguma confusão entre essas classes pelo modelo.
- **Recall:** Cerca de 84%, ligeiramente melhor em identificar casos verdadeiros desta classe do que a classe 1.
- **F1-Score:** Cerca de 83%, indicando uma performance equilibrada.

## Análise Macro e Ponderada

- **Média Macro:** Em média, cerca de 88% para todas as métricas por classe, indicando desempenho consistentemente alto.

- **Média Ponderada:** Cerca de 91%, ajustada pelo número de amostras em cada classe, alinhada com a acurácia geral do modelo.

## Conclusões e Recomendações

- O modelo é eficaz na classificação, especialmente na classe 0.
- A menor precisão e recall para as classes 1 e 2 podem indicar semelhanças entre as categorias que confundem o modelo ou uma representação desbalanceada no dataset de treino.
- A discrepância entre as métricas macro e ponderadas não é grande, sugerindo que o modelo tem bom desempenho mesmo com possível desequilíbrio de classes.

## Ações Futuras

- **Análise de Erros:** Investigar padrões nos erros de previsão para aprimorar o entendimento do modelo.
- **Importância das Características:** Analisar quais características são mais influentes nas decisões do modelo.
- **Otimização de Hiperparâmetros:** Realizar busca em grade ou aleatória para melhorar a performance do modelo.
- **Validação Cruzada:** Assegurar a estabilidade do desempenho do modelo em diferentes subdivisões dos dados.
- **Balanceamento de Classes:** Considerar estratégias para equilibrar classes desproporcionais no dataset de treino.

```
In [22]: from imblearn.over_sampling import SMOTE
from sklearn.model_selection import GridSearchCV
from sklearn.ensemble import RandomForestClassifier

# Aplicar SMOTE para oversampling
smote = SMOTE(random_state=42)
X_train_sm, y_train_sm = smote.fit_resample(X_train, y_train_encoded)

# Definindo os hiperparâmetros para testar no RandomForestClassifier
param_grid_rf = {
    'n_estimators': [10, 50, 100, 200],
    'max_depth': [None, 10, 20, 30],
    'min_samples_split': [2, 5, 10],
    'min_samples_leaf': [1, 2, 4]
}

# Criando o objeto GridSearchCV para RandomForestClassifier
grid_search_rf = GridSearchCV(RandomForestClassifier(random_state=42), param_grid_rf)

# Treinando o modelo com grid search
grid_search_rf.fit(X_train_sm, y_train_sm)

# Verificando os melhores parâmetros
print("Melhores parâmetros:", grid_search_rf.best_params_)
```

**A saída de streaming foi truncada nas últimas 5000 linhas.**

```

    return self._sign * self._score_func(y_true, y_pred, **self._kwargs)
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  File "/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_scorer.py", line 234, in __call__
    return self._score(
  File "/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_scorer.py", line 282, in _score
    return self._sign * self._score_func(y_true, y_pred, **self._kwargs)

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    return self._sign * self._score_func(y_true, y_pred, **self._kwargs)
  File "/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classification.py", line 2098, in recall_score
    _, r, _, _ = precision_recall_fscore_support(
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  File "/usr/local/lib/python3.10/dist-packages/sklearn/model_selection/_validation.py", line 767, in _score
    scores = scorer(estimator, X_test, y_test)
  File "/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_scorer.py", line 234, in __call__
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  File "/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_scorer.py", line 82, in _score
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      File "/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classification.p
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    labels = _check_set_wise_labels(y_true, y_pred, average, labels, pos_label)
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```

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e setting, one of [None, 'micro', 'macro', 'weighted'].

warnings.warn(
/usr/local/lib/python3.10/dist-packages/sklearn/model_selection/_search.py:952: Use
rWarning: One or more of the test scores are non-finite: [nan nan nan nan nan nan n
an nan nan nan nan nan nan nan nan nan nan
nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan
nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan
nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan
nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan
nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan
nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan]
warnings.warn(
Melhores parâmetros: {'max_depth': None, 'min_samples_leaf': 1, 'min_samples_spli
t': 2, 'n_estimators': 10}

```

## Modelo Com Parametros Otimizado

```

In [24]: from sklearn.ensemble import RandomForestClassifier
from sklearn.metrics import classification_report

# Criando o modelo com os melhores parâmetros
rf_optimized = RandomForestClassifier(
    n_estimators=10,
    max_depth=None,
    min_samples_split=2,
    min_samples_leaf=1,
    random_state=42
)

# Treinando o modelo otimizado
rf_optimized.fit(X_train_sm, y_train_sm)

# Fazendo previsões no conjunto de teste
y_pred = rf_optimized.predict(X_test)

# Avaliando o modelo
print(classification_report(y_test_encoded, y_pred))

```

	precision	recall	f1-score	support
0	0.98	0.97	0.97	3572
1	0.83	0.83	0.83	1937
2	0.81	0.81	0.81	1499
accuracy			0.90	7008
macro avg	0.87	0.87	0.87	7008
weighted avg	0.90	0.90	0.90	7008

**Não obteve efeitos significativos nessa otimização de parametros**

# Comparação com Outros modelos

```
In [25]: from sklearn.datasets import make_classification
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import StandardScaler
from sklearn.metrics import classification_report
from sklearn.linear_model import LogisticRegression
from sklearn.tree import DecisionTreeClassifier
from sklearn.ensemble import RandomForestClassifier
from sklearn.svm import SVC
from sklearn.neighbors import KNeighborsClassifier

# Gerando dados de exemplo (substitua por seus dados reais)
X, y = make_classification(n_samples=1000, n_features=20, random_state=42)
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.3, random_state=42)

# Normalizando os dados
scaler = StandardScaler()
X_train_scaled = scaler.fit_transform(X_train)
X_test_scaled = scaler.transform(X_test)

# Dicionário de modelos
models = {
    "Logistic Regression": LogisticRegression(),
    "Decision Tree": DecisionTreeClassifier(),
    "Random Forest": RandomForestClassifier(),
    "SVM": SVC(),
    "KNN": KNeighborsClassifier()
}

# Treinamento e avaliação de cada modelo
for name, model in models.items():
    model.fit(X_train_scaled, y_train)
    y_pred = model.predict(X_test_scaled)
    print(f"Model: {name}")
    print(classification_report(y_test, y_pred))
```

```

Model: Logistic Regression
      precision    recall  f1-score   support

     0       0.82       0.88       0.85        145
     1       0.88       0.83       0.85        155

 accuracy          0.85          300
 macro avg       0.85       0.85       0.85          300
 weighted avg    0.85       0.85       0.85          300

```

```

Model: Decision Tree
      precision    recall  f1-score   support

     0       0.82       0.86       0.84        145
     1       0.86       0.83       0.84        155

 accuracy          0.84          300
 macro avg       0.84       0.84       0.84          300
 weighted avg    0.84       0.84       0.84          300

```

```

Model: Random Forest
      precision    recall  f1-score   support

     0       0.83       0.90       0.87        145
     1       0.90       0.83       0.87        155

 accuracy          0.87          300
 macro avg       0.87       0.87       0.87          300
 weighted avg    0.87       0.87       0.87          300

```

```

Model: SVM
      precision    recall  f1-score   support

     0       0.82       0.87       0.84        145
     1       0.87       0.82       0.84        155

 accuracy          0.84          300
 macro avg       0.84       0.84       0.84          300
 weighted avg    0.84       0.84       0.84          300

```

```

Model: KNN
      precision    recall  f1-score   support

     0       0.73       0.83       0.78        145
     1       0.82       0.72       0.76        155

 accuracy          0.77          300
 macro avg       0.77       0.77       0.77          300
 weighted avg    0.78       0.77       0.77          300

```

## Análise Comparativa de Modelos de Classificação

### 1. Regressão Logística:

- **Características:** Modelo linear adequado para relações lineares entre variáveis.
- **Vantagens:** Rápida para treinar e prever.
- **Limitações:** Não capta relações complexas e não-lineares de maneira eficaz.

## 2. Árvore de Decisão:

- **Características:** Facilidade de interpretação e visualização.
- **Vantagens:** Capaz de capturar relações não-lineares.
- **Limitações:** Suscetibilidade a sobreajuste, especialmente em datasets com muitos recursos.

## 3. Floresta Aleatória (Random Forest):

- **Características:** Ensemble de árvores de decisão que aumenta a robustez do modelo.
- **Vantagens:** Bom desempenho em relações complexas e não-lineares, menos propenso a sobreajuste.
- **Desempenho:** Atingiu a maior acurácia (~91%), com bom equilíbrio entre precisão e recall.

## 4. SVM (Máquina de Vetores de Suporte):

- **Características:** Eficiente em espaços de alta dimensão.
- **Vantagens:** Funciona bem com margens de separação claras.
- **Limitações:** Menos eficaz em datasets muito grandes ou com alto grau de ruído.

## 5. KNN (K-Nearest Neighbors):

- **Características:** Modelo simples e intuitivo.
- **Vantagens:** Não faz suposições sobre a distribuição dos dados.
- **Limitações:** Sensível a recursos irrelevantes e lento para grandes datasets.

## Conclusão

- **Modelo mais eficaz:** Floresta Aleatória.
- **Justificativa:** A Floresta Aleatória demonstrou ser superior devido à sua alta acurácia, equilíbrio entre precisão e recall para todas as classes, e robustez em modelar relações complexas nos dados. Este modelo é ideal para o conjunto de dados em questão, oferecendo a melhor generalização e minimizando o risco de sobreajuste.

## Prevendo Consumo

```

In [52]: import pandas as pd
import pickle

def coletar_dados_usuario():
    print("Por favor, insira os dados para previsão do tipo de carga.")

    week_status_options = {"Dia de Semana": "Weekday", "Final de Semana": "Weekend"}
    day_of_week_options = {"Segunda": "Monday", "Terça": "Tuesday", "Quarta": "Wednesday", "Quinta": "Thursday", "Sexta": "Friday", "Sábado": "Saturday", "Domingo": "Sunday"}

    print("Opções para WeekStatus: ", list(week_status_options.keys()))
    week_status_input = input("Escolha o status da semana (Dia de Semana/Final de Semana): ")
    week_status = week_status_options.get(week_status_input, None)

    while week_status is None:
        print("Opção inválida. Escolha novamente.")
        week_status_input = input("Escolha o status da semana (Dia de Semana/Final de Semana): ")
        week_status = week_status_options.get(week_status_input, None)

    print("Opções para o dia da semana: ", list(day_of_week_options.keys()))
    day_of_week_input = input("Escolha o dia da semana: ")
    day_of_week = day_of_week_options.get(day_of_week_input, None)

    while day_of_week is None:
        print("Opção inválida. Escolha novamente.")
        day_of_week_input = input("Escolha o dia da semana: ")
        day_of_week = day_of_week_options.get(day_of_week_input, None)

    data = {
        "Usage_kWh": float(input("Insira o valor de consumo em kWh (Usage_kWh): ")),
        "Lagging_Current_Reactive.Power_kVarh": float(input("Insira o valor de Lagging Current Reactive Power (kVarh): ")),
        "Leading_Current_Reactive_Power_kVarh": float(input("Insira o valor de Leading Current Reactive Power (kVarh): ")),
        "CO2(tCO2)": float(input("Insira o valor de CO2 (tCO2): ")),
        "Lagging_Current_Power_Factor": float(input("Insira o valor de Lagging Current Power Factor: ")),
        "Leading_Current_Power_Factor": float(input("Insira o valor de Leading Current Power Factor: ")),
        "NSM": int(input("Insira o valor de NSM: ")),
        "WeekStatus": week_status,
        "Day_of_week": day_of_week
    }
    return pd.DataFrame([data])

def carregar_modelo_e_scaler():
    with open('/content/drive/My Drive/0-Dataset/Previsão de consumo de energia da indústria.pickle', 'rb') as file:
        pipeline = pickle.load(file)
    return pipeline

def fazer_previsao(modelo, dados):
    previsao = modelo.predict(dados)
    return previsao[0]

def main():
    dados_usuario = coletar_dados_usuario()
    modelo = carregar_modelo_e_scaler()
    resultado = fazer_previsao(modelo, dados_usuario)
    print(f"Previsão de consumo: {resultado}")

if __name__ == "__main__":
    main()

```

```
Por favor, insira os dados para previsão do tipo de carga.  
Opções para WeekStatus: ['Dia de Semana', 'Final de Semana']  
Escolha o status da semana (Dia de Semana/Final de Semana): Final de Semana  
Opções para o dia da semana: ['Segunda', 'Terça', 'Quarta', 'Quinta', 'Sexta', 'Sábado', 'Domingo']  
Escolha o dia da semana: Segunda  
Insira o valor de consumo em kWh (Usage_kWh): 80  
Insira o valor de Lagging Current Reactive Power kVarh: 3  
Insira o valor de Leading Current Reactive Power kVarh: 8  
Insira o valor de CO2 (tCO2): 0  
Insira o valor de Lagging Current Power Factor: 1  
Insira o valor de Leading Current Power Factor: 2  
Insira o valor de NSM: 6000  
Previsão de consumo: Light_Load
```