

Project files

Electricity consumption exploration

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If you want files to explore electricity consumption patterns, here are example datasets you can use. These are commonly used for data analysis, ML, and AI projects:

① Household Electricity Consumption Dataset

Name: Individual household electric power consumption

Source: UCI Machine Learning Repository

File Type: .txt, .csv

Contains: Date, time, global active power, voltage, sub-metering

Use For: Time-series analysis, peak usage detection, forecasting

② Smart Meter Energy Consumption Data

Name: Smart Meter Energy Consumption Data

Source: UK Power Networks

File Type: .csv

Contains: Half-hourly electricity usage per household

Use For: Pattern analysis, clustering, demand prediction

③ Open Power System Data

Name: Open Power System Data

Source: Open Power System Data

File Type: .csv, .xlsx

Contains: Country-wise electricity consumption, generation, weather data

Use For: National-level trend analysis, renewable energy studies

④ Electricity Load Diagrams Dataset

Name: Electricity Load Diagrams 2011-2014

Source: UCI Machine Learning Repository

File Type: .txt, .csv

Contains: 15-minute electricity consumption data for 370 clients

Use For: Load forecasting, anomaly detection

- ◆ Common File Formats You'll Use

CSV (.csv) – Most common, easy to open in Excel or Python

Excel (.xlsx) – Good for manual exploration

TXT (.txt) – Raw data format

JSON (.json) – Used in APIs