



Data Science for Energy Market Forecasting: Insights from the European Energy Crisis

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Outline

- Data Science for Energy Market Forecasting: Insights from the European Energy Crisis
- Introduction
- Demand Forecasting
- Supply Forecasting
- Price Forecasting
- Challenges and Opportunities
- Conclusion

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Introduction

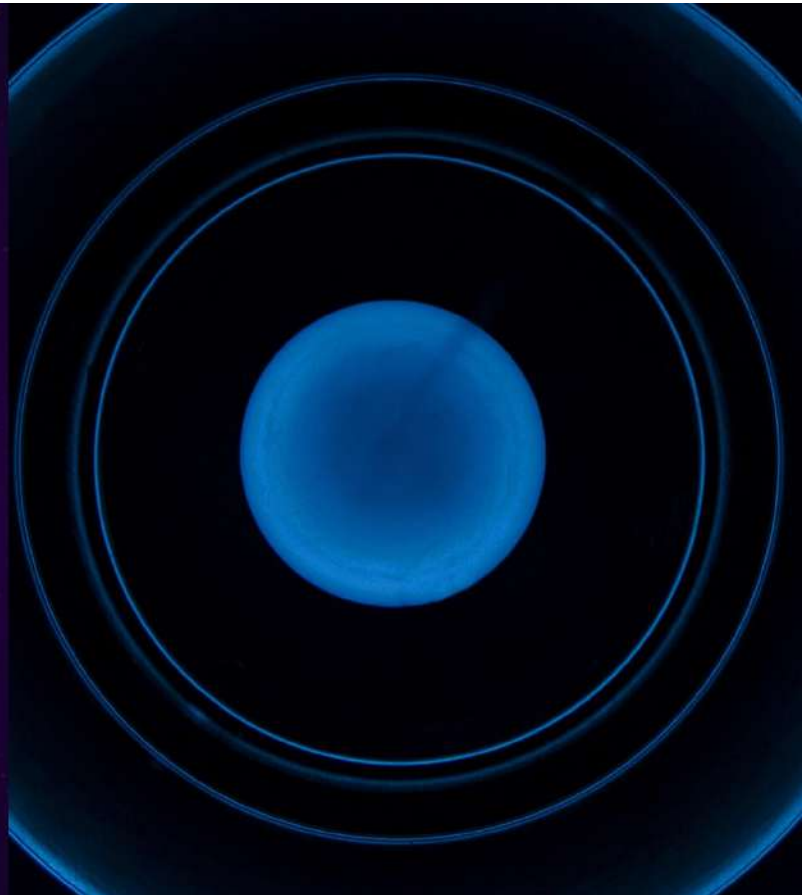
- Importance of data science in the energy sector
- Areas where data science can provide insights
- Example of the European energy crisis of 2021
- Use of data science and machine learning in the energy sector

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Demand Forecasting

- Factors influencing energy consumption patterns
- Analysis of historical data to identify patterns
- Building predictive models for future demand forecasting
- Benefits of accurate demand forecasting

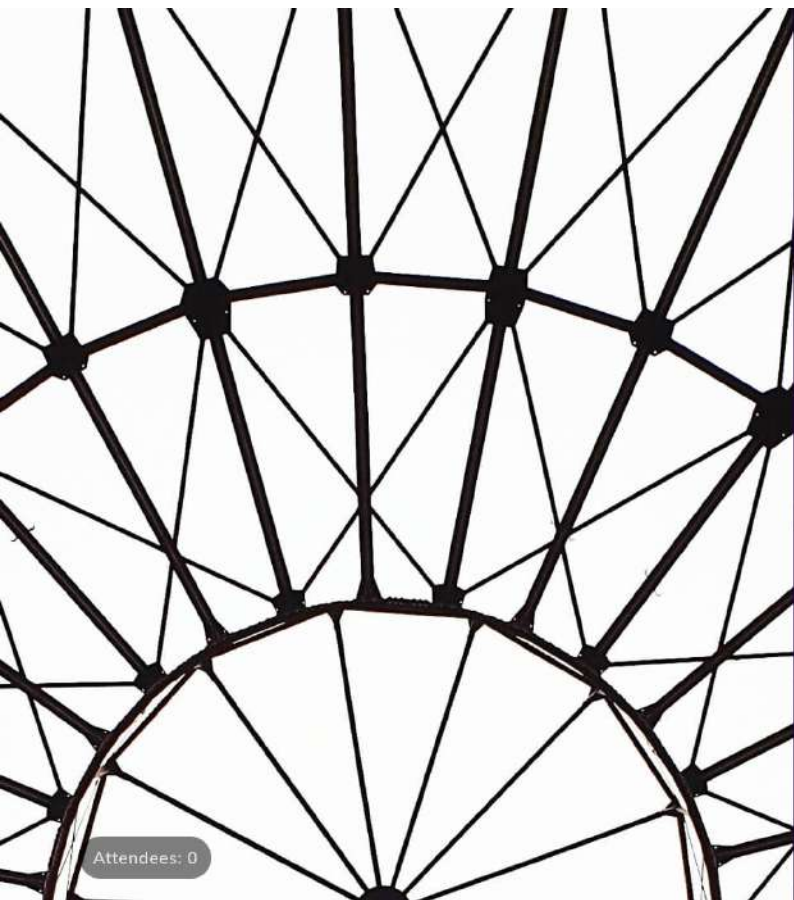
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Supply Forecasting

- Analysis of trends in production, transportation, and storage
- Forecasting future supply
- Planning for potential supply disruptions
- Optimizing resource allocation

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Price Forecasting

- Importance of accurate price forecasting
- Analysis of historical pricing data and market trends
- Development of predictive models for future energy prices
- Benefits of accurate price forecasting

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Challenges and Opportunities

- Availability of high-quality data
- Concerns around data privacy and security
- Potential benefits of data science for sustainability
- Open-source tools and platforms for energy market forecasting

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Conclusion

- Potential benefits of data science for energy market forecasting
- Importance of investing in data science and machine learning
- References