Revitalizing Solar Insights: A Dashboard for West Tennessee Solar Farm

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Introduction

Motivation

Can we build an interactive dashboard to improve research and education accessibility, optimize power production, and advance sustainable energy practices?

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   - Export Data

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   Hosts a web server to allow users from all major operating systems to be able to access the dashboard.
5. **Google Cloud Console**
   Safeguards API information for enhanced data security.

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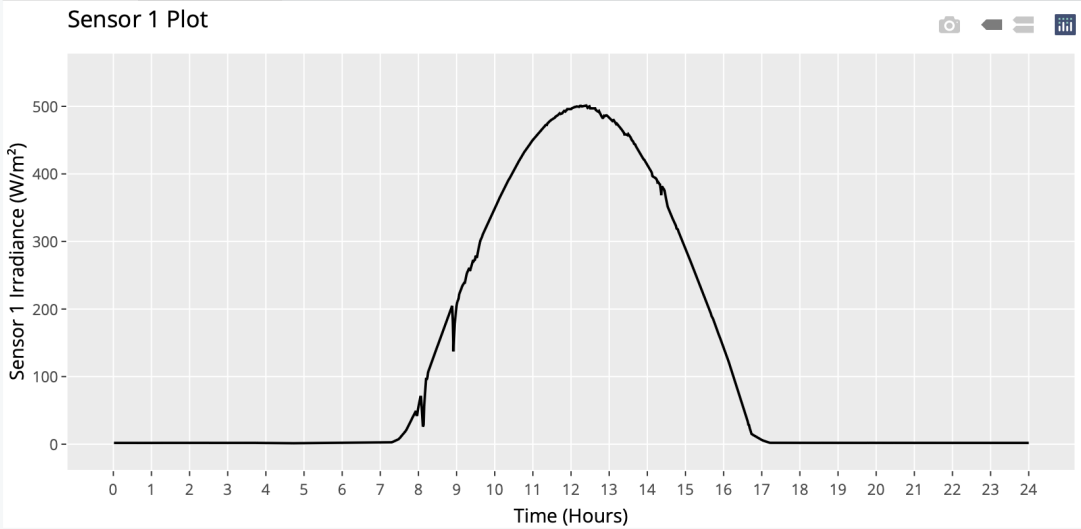
4. **Cross-Platform Accessibility**
   Ensure inclusivity by designing a webpage that accommodates diverse laptop operating systems, guaranteeing a seamless user experience.

Dashboard Demo

West Tennessee Solar Farm

Live Data | Daily Data



Tomorrow's Forecast

Date	Metric	Value
2023-09-24	Predicted Average Cloud Cover (%)	82.62
2023-09-24	Predicted Average Temperature °F	72.96
2023-09-24	Weather Outlook	Overcast
2023-09-24	Predicted UV Radiation	7.21

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Future Work

1. **Predictive Analysis**

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2. **Notifications**
3. **Video Tutorial**

Conclusion

The dashboard creates:

1. An educational tool for people to learn about the Solar Farm Process
2. A research tool that provides public data to study

Any Questions?

Comments?

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