10. BEST HACKING LEAGUE

SOLAR MONEY

Prymalni dualiści

Michał Piechota, Kacper Rodziewicz, Igor Rudolf, Gaspar Sekula

+20% (CARG)



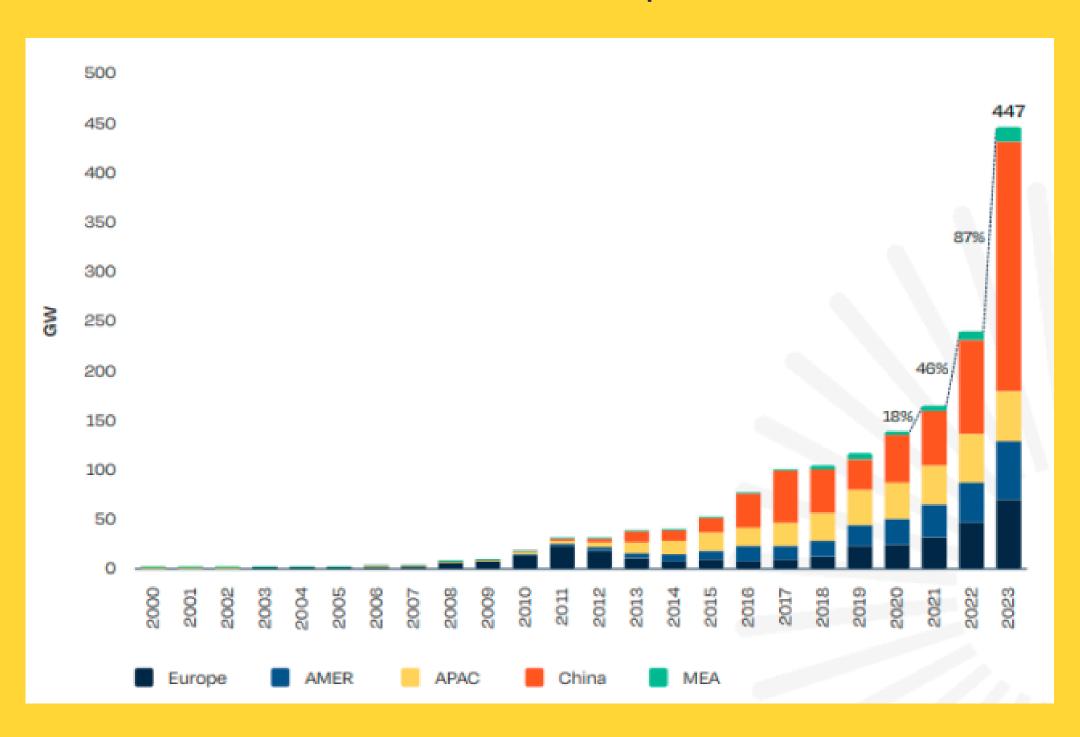
\$5.67BN

2024

525.04BN

2032

Interest in solar panels



OUR GOAL

01

Simplify solar investments!

Remove barriers to solar energy with easy-to-understand, personalized cost-benefit analyses.

02

Empower Energy Independence!

Help users make informed decisions about solar energy by providing transparent savings projections.

03

Go green!

Encourage green energy adoption by showcasing the financial and environmental benefits of solar installations.

SIMPLE SOLUTION

70 YOUR PROBLEM

OH, IT'S SO SIMPLE







$$argmax_{x_{j \in \Omega S}} \left(f(x_j, y) - rac{1}{|S|^2} {\sum}_{l \in S} g(x_j, x_l)
ight)$$

METHODOLOGY

- (MRMR) Maximum Redundancy Minimun Relevance algorithm
- Auto-ML solutions
- Shapley formulas & plots analysis
- Statistical input: t-test and F-test, AIC and BIC criterion, residuals (modified, studentized)
 analysis
- We apply critical thinking and expertise to develop our solutions, ensuring thoughtful design rather than blindly coding.

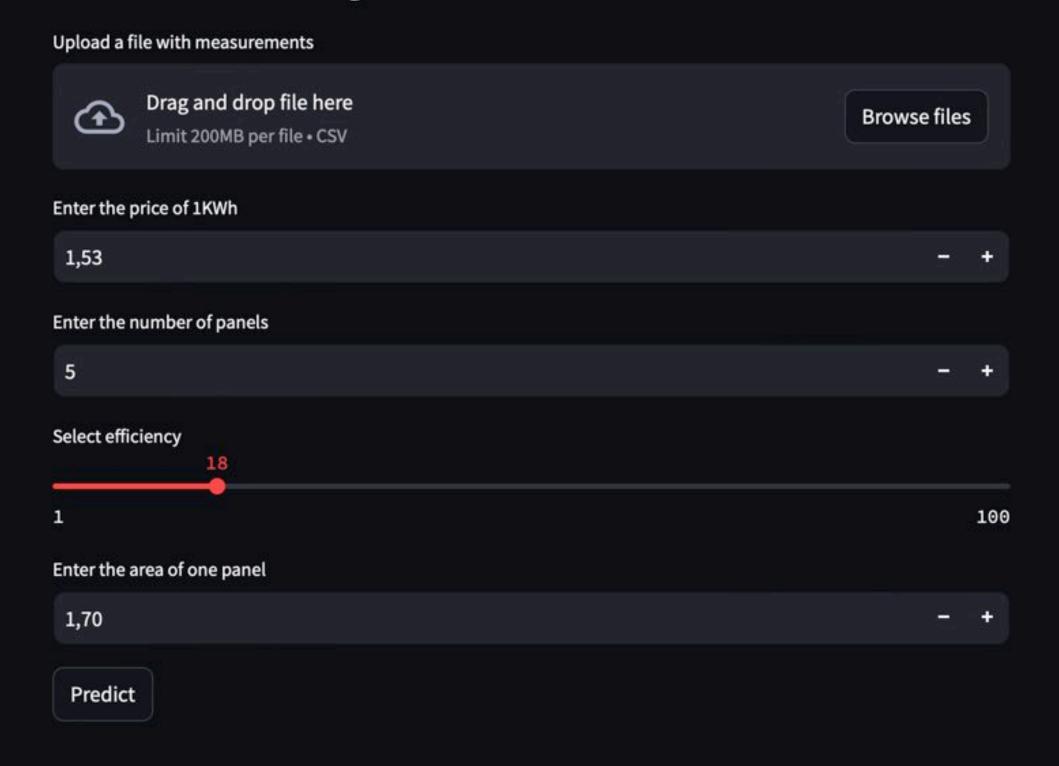
(b) SCAN (S)! (2) 21/S/

(e(s) fix)

FASTER? LET'S GO

FASTER WINSTILL GOOD

Solar Money Calculator



Predicted yearly solar energy production: 1588.763 KWh

Predicted yearly savings: 2430.808 zł





OTHERS?

SUNWATTS, SUNWATTS, SOLAR PANELS VENUE, PVGIS

HOWARE WE BETTER?

BIBLIOGRAPHY

- https://www.businessresearchinsights.com/market-reports/solar-power-system-batteriesmarket-102105
- https://www.evwind.es/2024/06/19/world-to-achieve-2-tw-of-total-photovoltaic-pv-this-year/99200
- https://www.researchgate.net/figure/Monthly-average-daily-solar-radiation-on-horizontalplane-for-Gharda-ia-site_fig1_234022870
- Zaigrajew, V., Baniecki, H., Tulczyjew, Ł., Wijata, A. M., Nalepa, J., Longépé, N., & Biecek, P. (n.d.). Red
 Teaming Models for Hyperspectral Image Analysis Using Explainable AI. Warsaw University of
 Technology, University of Warsaw, Silesian University of Technology, KP Labs, and European Space
 Agency
- Lundberg, S. M., & Lee, S.-I. (n.d.). A Unified Approach to Interpreting Model Predictions. Paul G.
 Allen School of Computer Science and Department of Genome Sciences, University of Washington. Retrieved from https://arxiv.org/abs/1705.07874

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