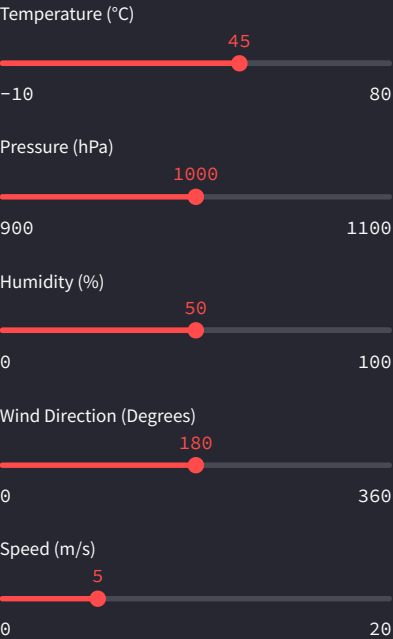


User Input Parameters



Rooftop Solar Energy Prediction & Insights

Prediction

Predicted Solar Energy Output: 65.97 W

Model Statistics

Mean Absolute Error (MAE): 86.10

Mean Squared Error (MSE): 20983.05

R² Score: 0.79

Cross-Validation MSE: 42223.02

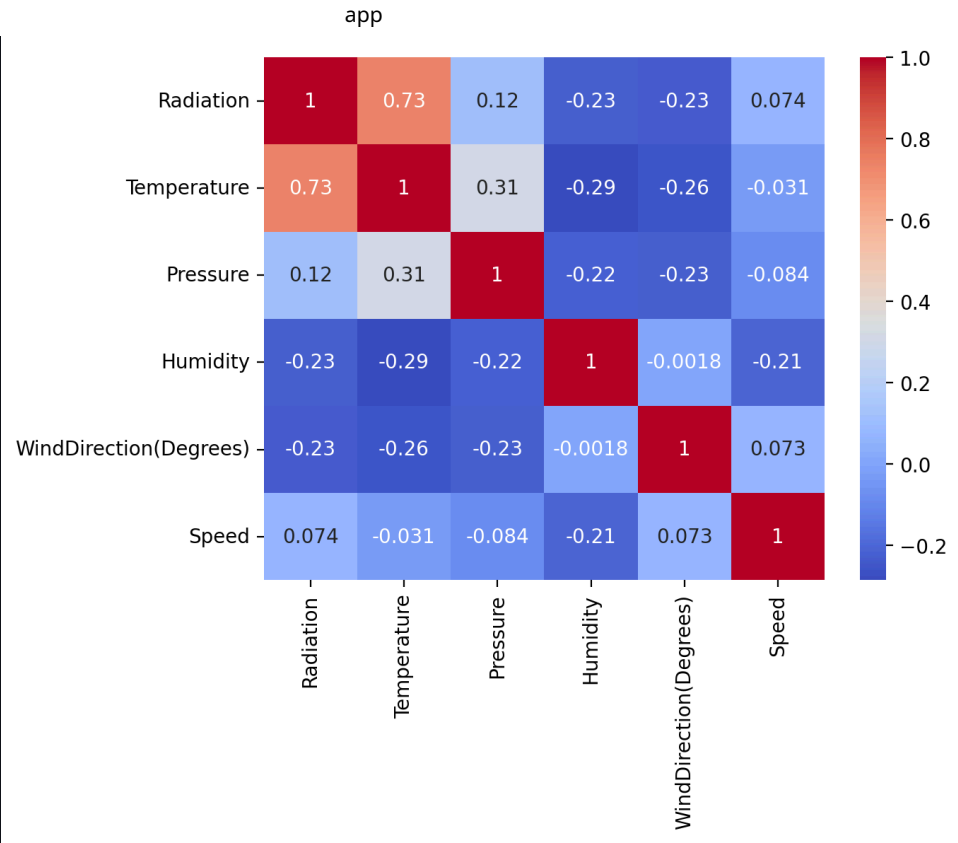
Feature Importance

Feature Importance

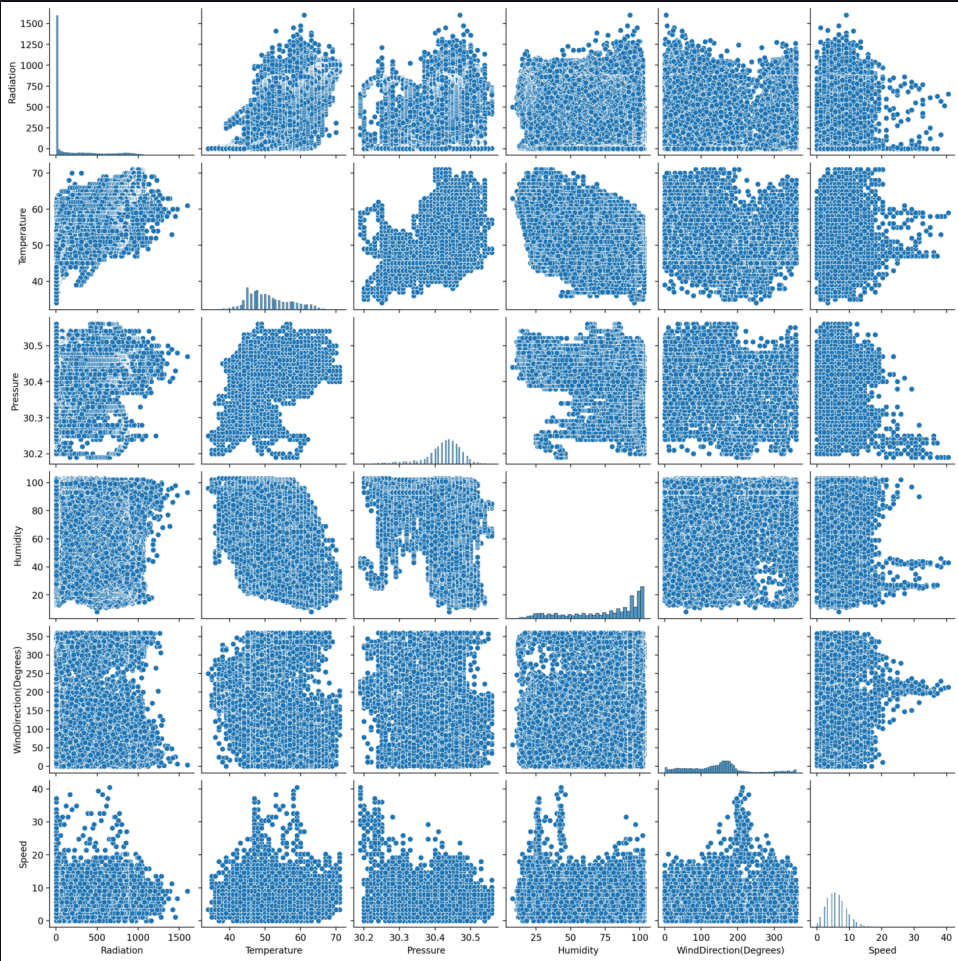


Data Insights and Visualizations

Correlation Heatmap

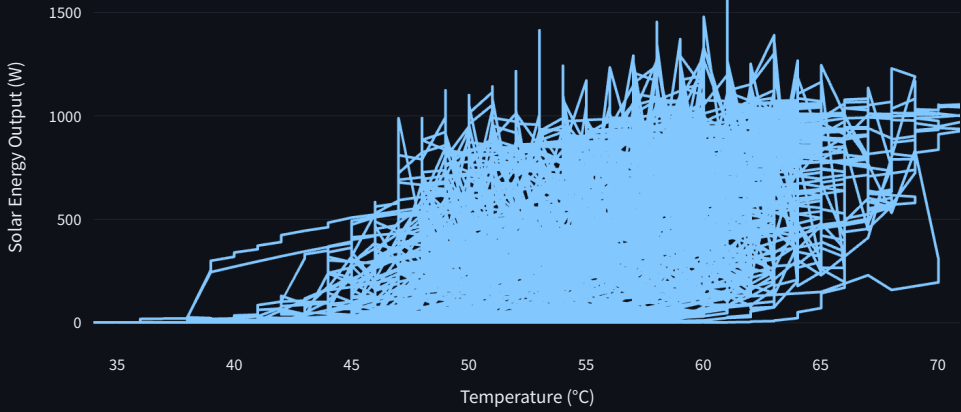


Pairplot of Features



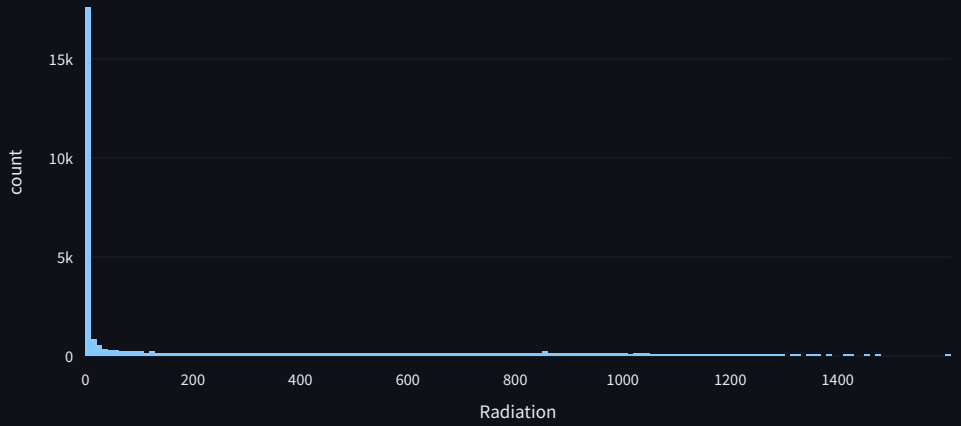
Solar Energy Output vs Temperature

Solar Energy Output vs Temperature

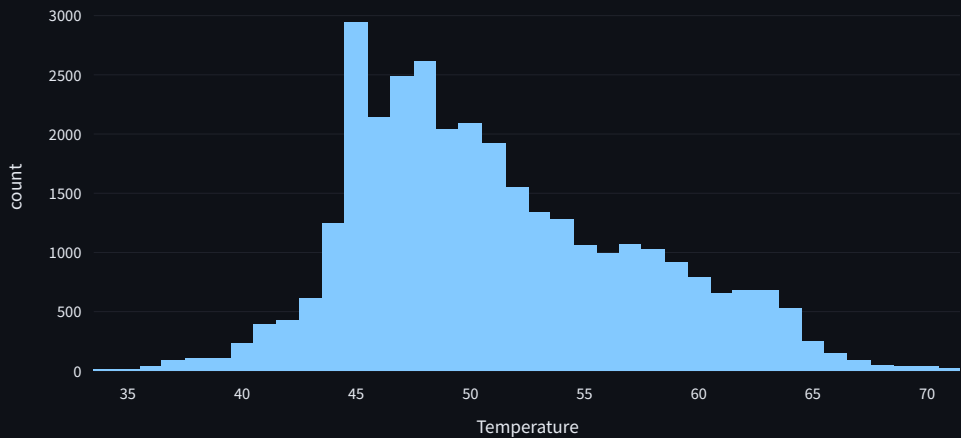


Feature Distribution

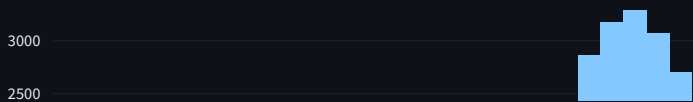
Radiation Distribution

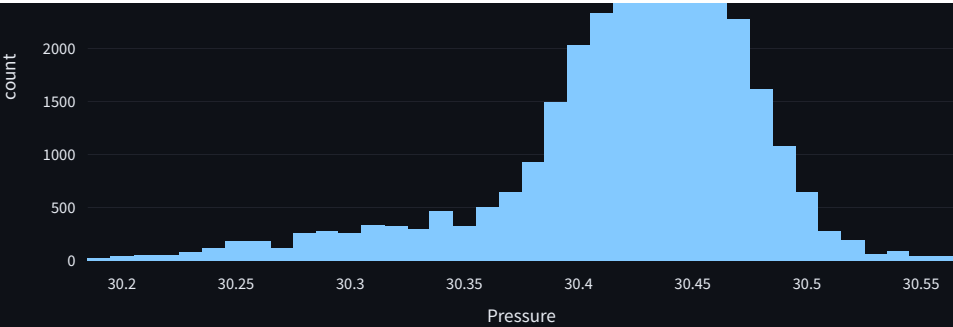


Temperature Distribution

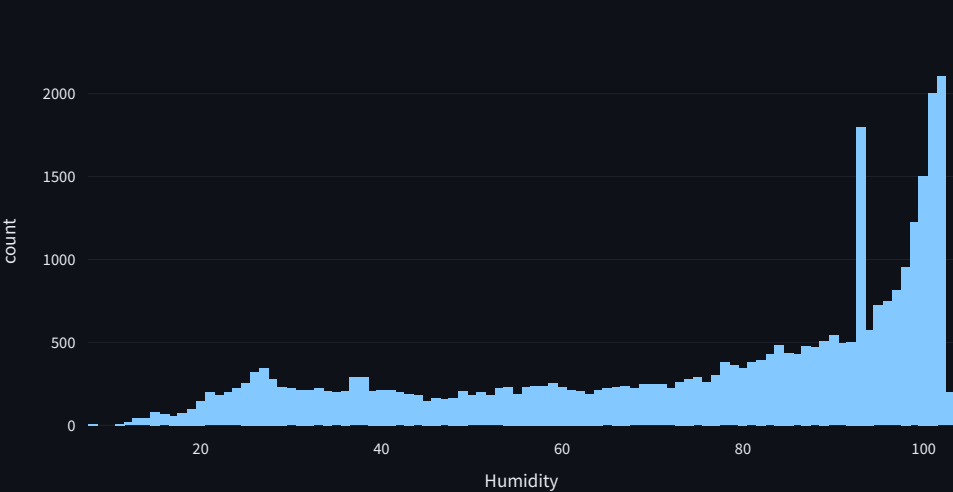


Pressure Distribution

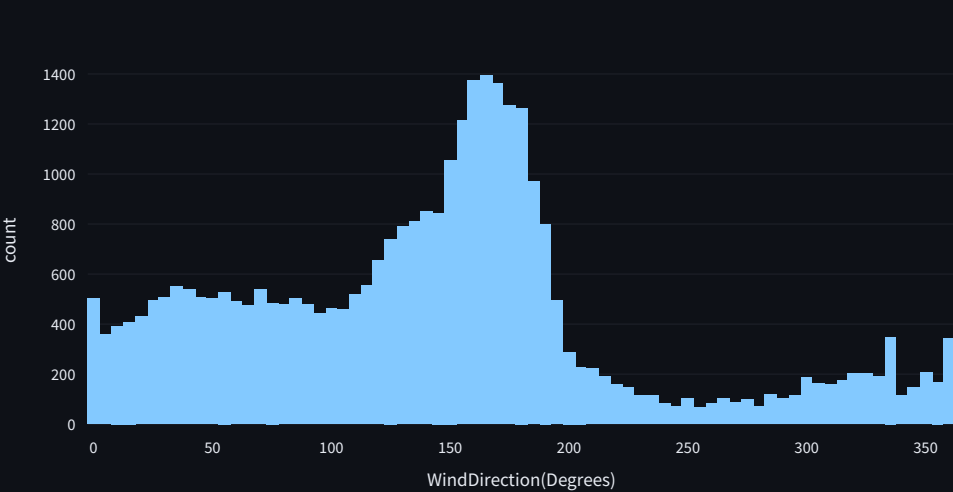




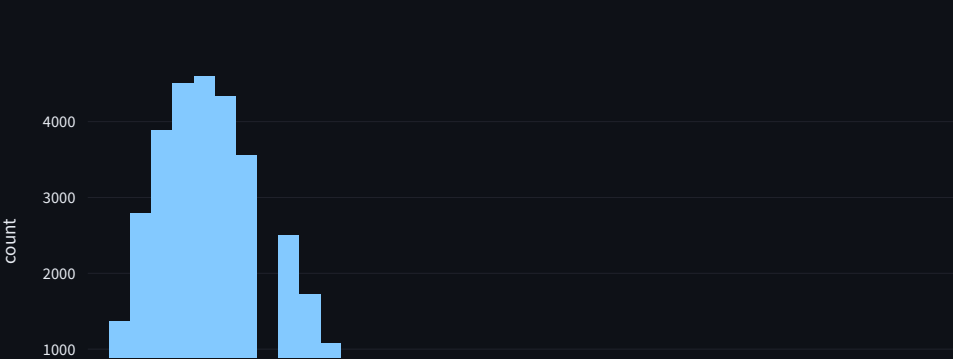
Humidity Distribution

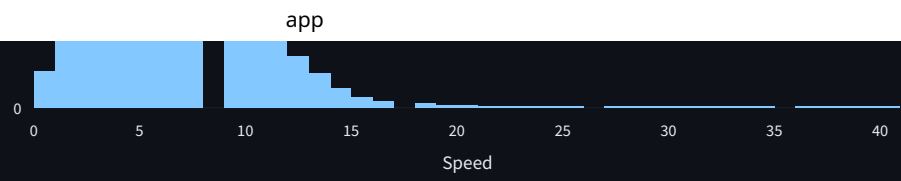


WindDirection(Degrees) Distribution



Speed Distribution





Actual vs Predicted

