ANTICIPATING STORM DAMAGE THROUGH REGRESSION



R-squared: 0.206

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• RMSE: \$692 million

R-squared: 0.206

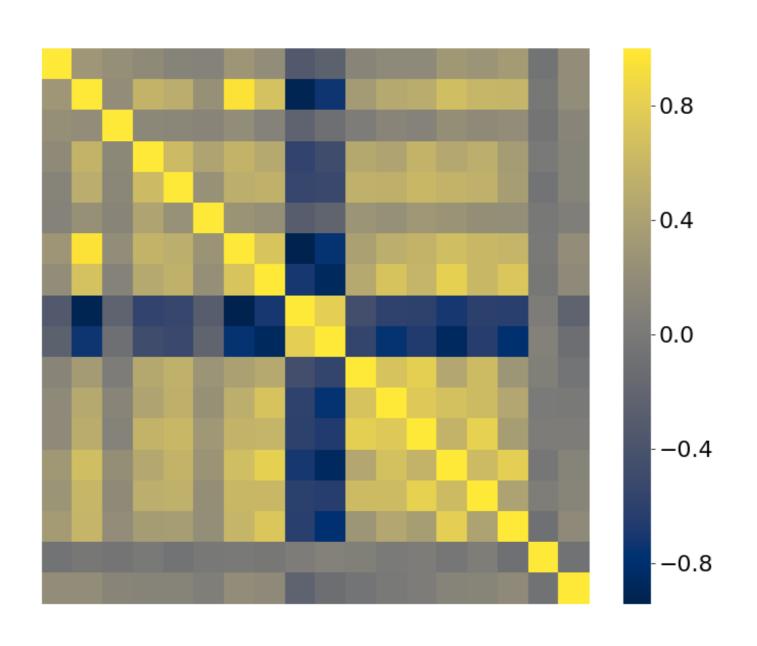
• RMSE: \$692 million

• MSE: 4.65e19

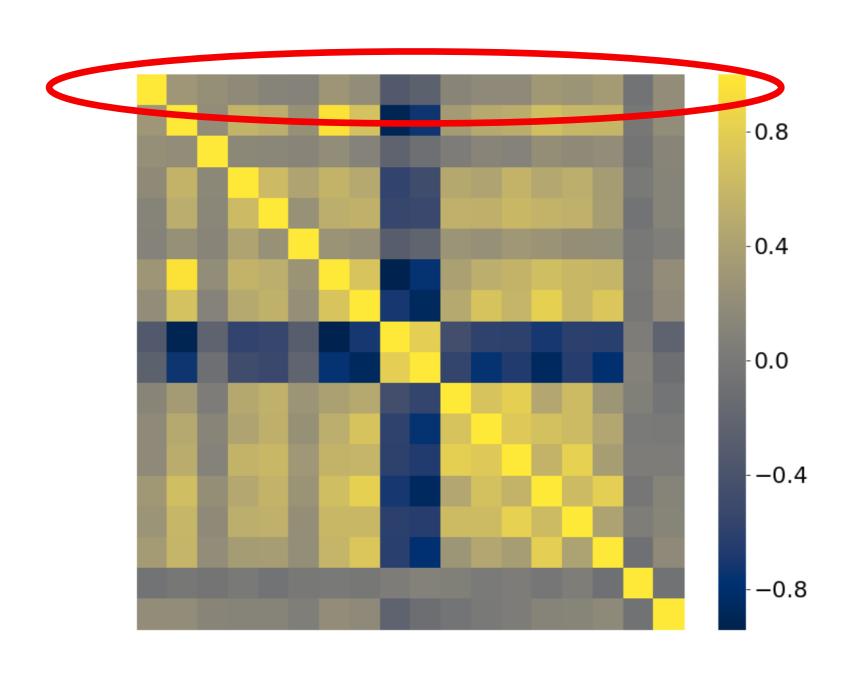
- Radius
- Windspeed
- Storm duration
- etc.



POORLY CORRELATED

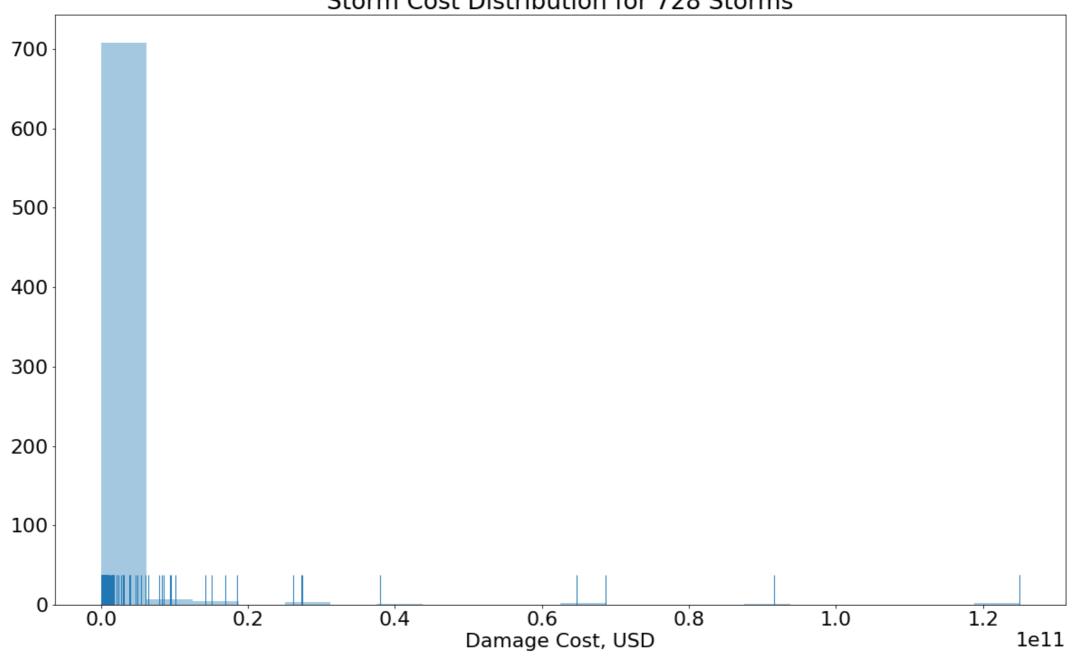


POORLY CORRELATED

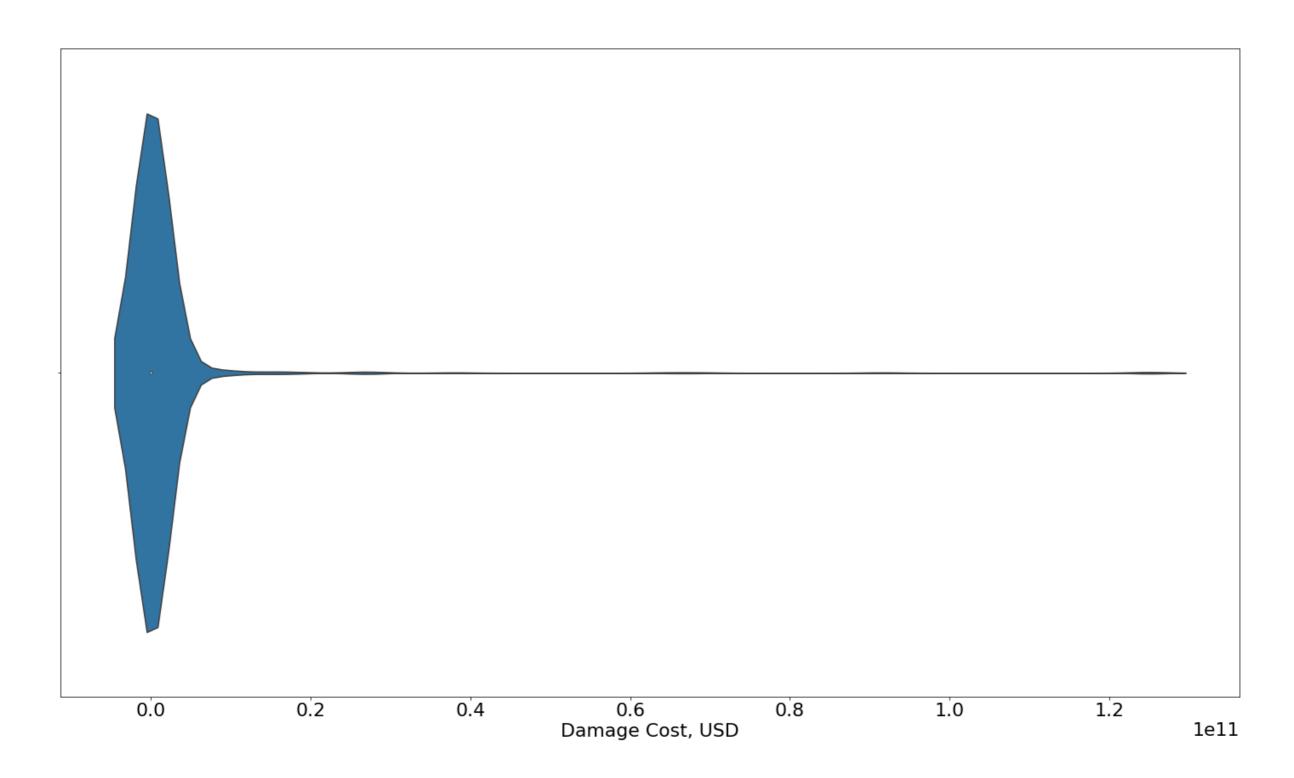


RIGHT-SHIFTED DATA

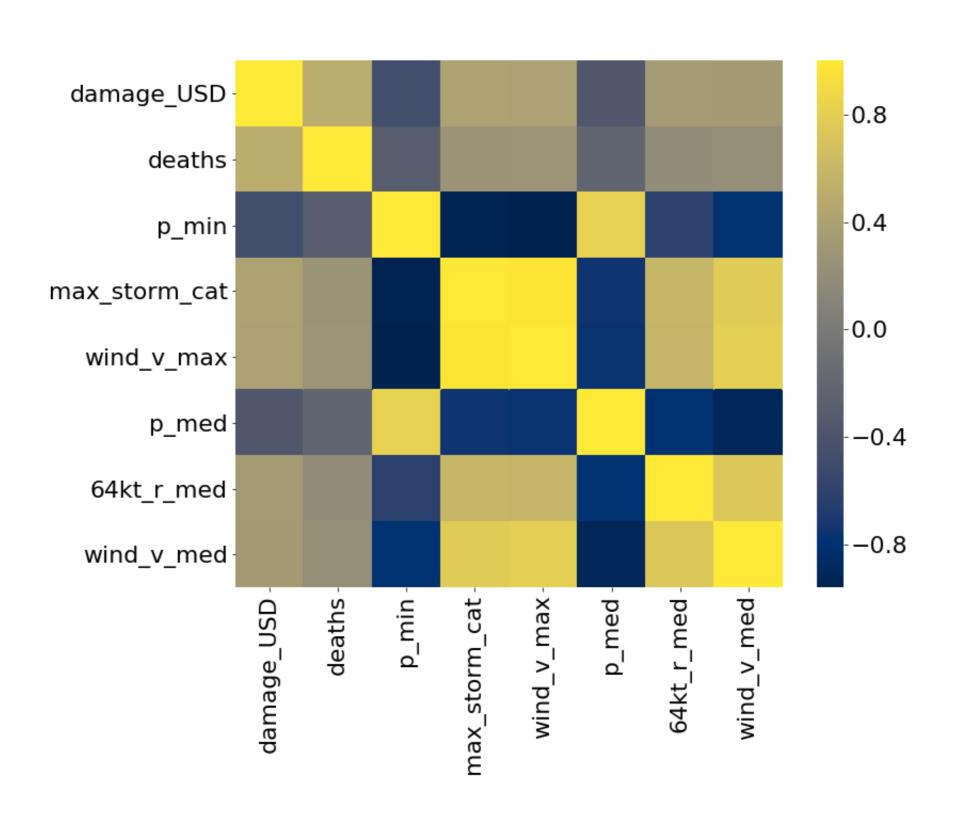




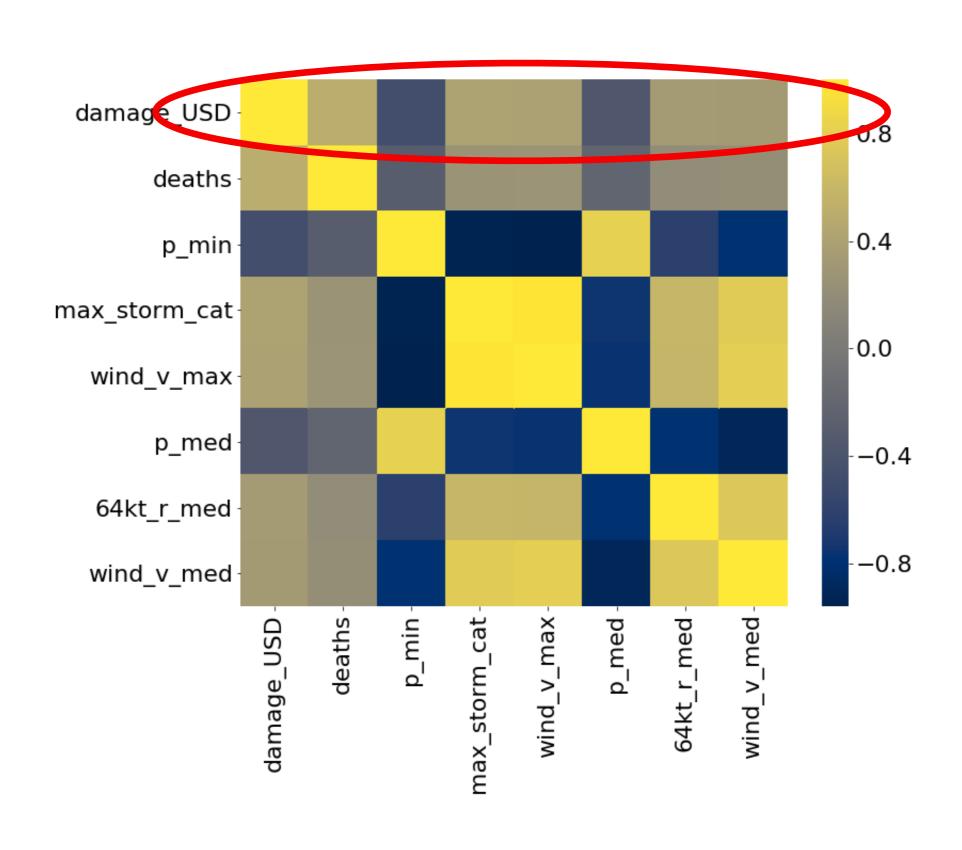
RIGHT-SHIFTED DATA



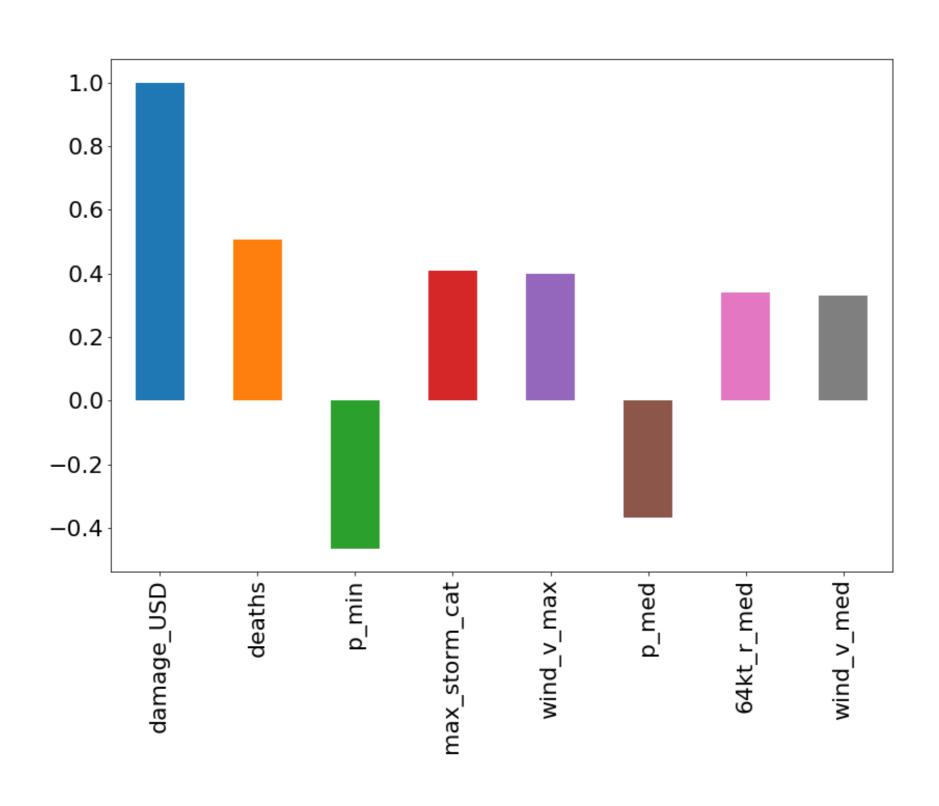
(LESS) POORLY CORRELATED



(LESS) POORLY CORRELATED



(LESS) POORLY CORRELATED



R-squared: 0.680

R-squared: 0.680

• RMSE: \$1.21 billion

R-squared: 0.680

RMSE: \$1.21 billion

• MSE: 6.79e19

• Alternate Models: GLM, Gamma Distribution

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- Segmenting by Storm Category

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- Vulnerability Factor

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- Segmenting by Storm Category
- Vulnerability Factor
- Topographical Data