

# Corn Yield Calculator

CSE 6242  
Team 136

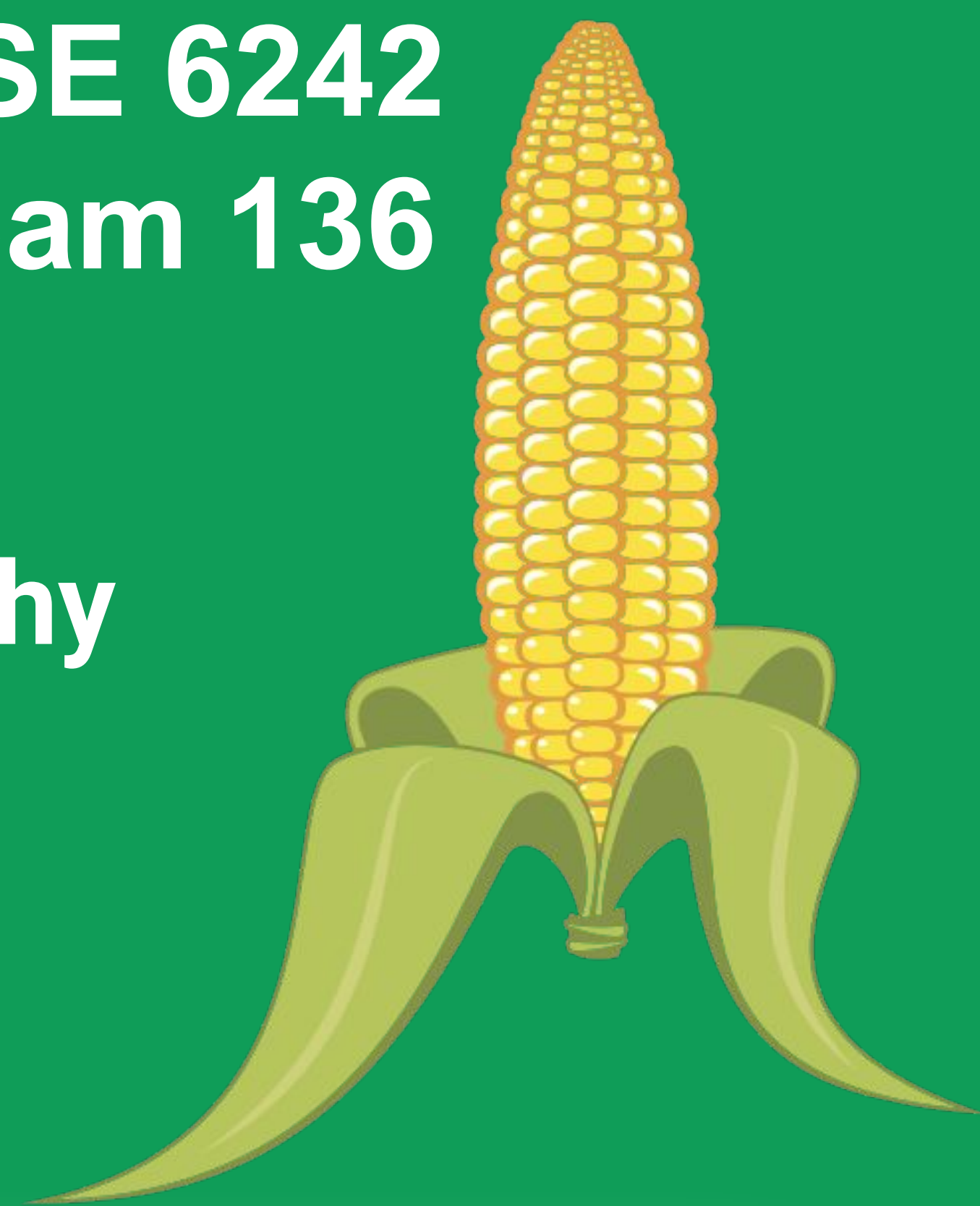
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## What?

Tool for predicting county average corn yields. DASH UI application - similar to a calculator.

Enter in your location get a prediction for your corn yield in seconds!

## Why?

Farmers and communities need a tool to predict what local corn yields will be. Understanding and benchmarking county yields shapes investment and business decisions for:

- Farmers
- Local government
- Grain Elevators

## How?

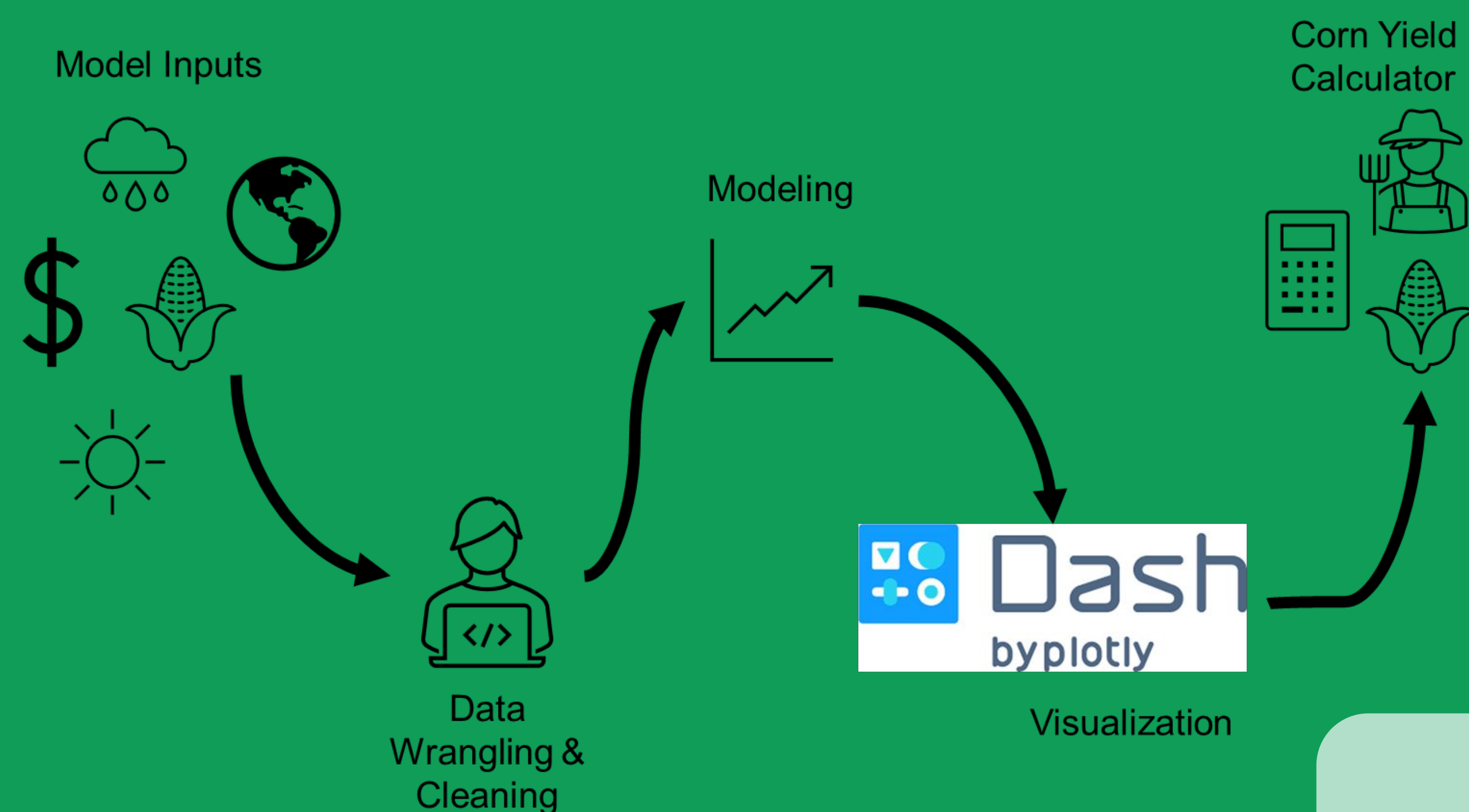
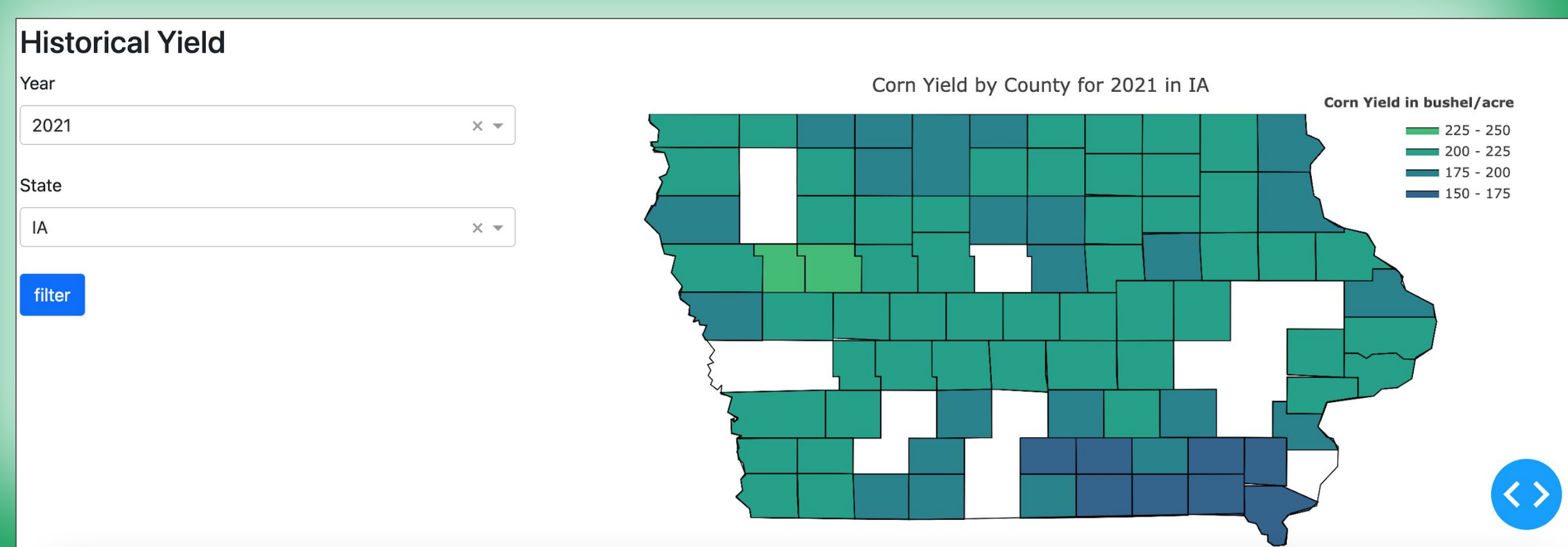
Features:

- Agricultural
- Weather
- Economic
- County

*These features come from web sources like NASS fed through API*

Final Model:

- XGBoost ~ RMSE 20Bu/a
- Top features were rain & count of extreme temp days
- Scored all counties available by all parameter options, 7M rows



## Other Yield Predictions

- USDA - corn yield samples
- Satellite imagery and remote sensing
- Kernel counting