

Asmita Gokhale

The New York Times

California Says PG&E Power Lines Caused Camp Fire That Killed 85



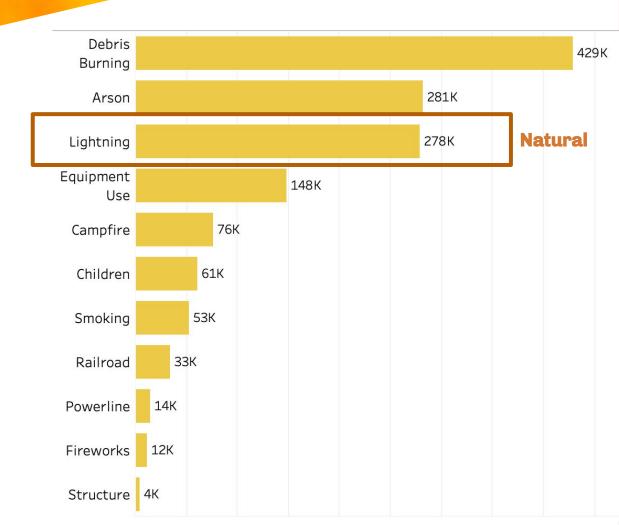
- Nov 2018 Camp Fire caused \$10B in damage
- Investigation concluded that it was caused by transmission lines
- PG&E liable for the damages

US Forest Service wants to investigate causes of wildfires

Data Used

- FPA Fire OccurrenceDatabase (1992 2015)
- Multiple causes collapsed to -
 - Natural
 - Human Caused





Interactive Dashboard



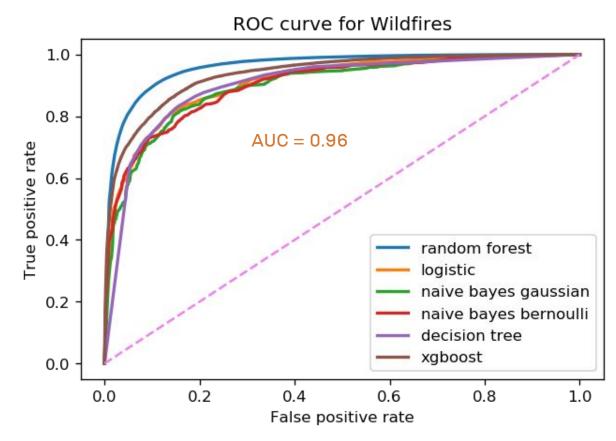
We want to capture all human caused fires



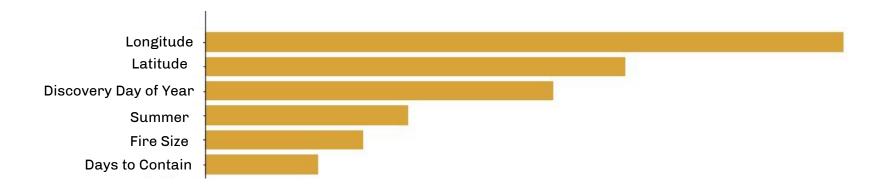
Model Selection

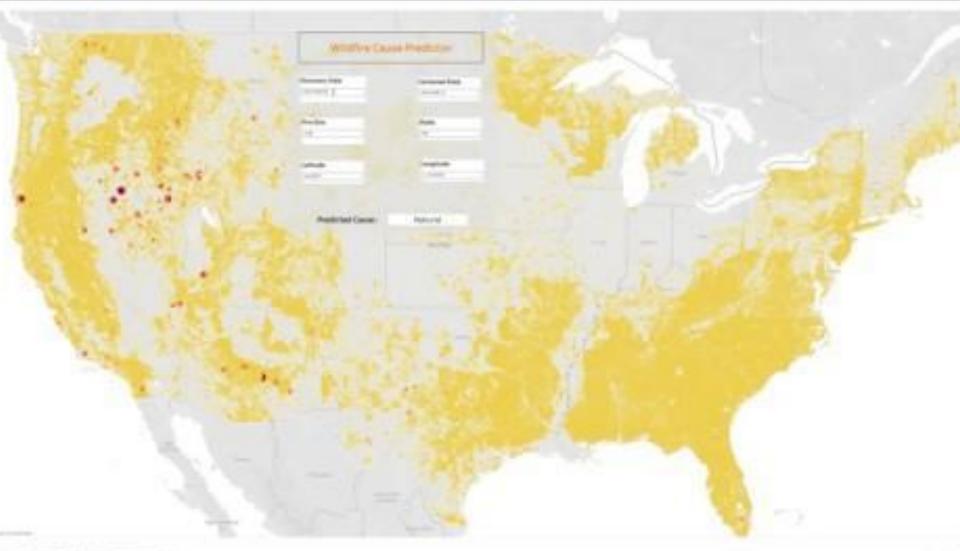
- Logistic Regression
- Naive Bayes
- Decision Tree
- RandomForest
- XGBoost

Recall = 0.99 @ 0.90 Precision (Threshold = 0.20)



Top Features - Random Forests





benefit ben field disease transact from



Questions?