WILDFIRES in the US

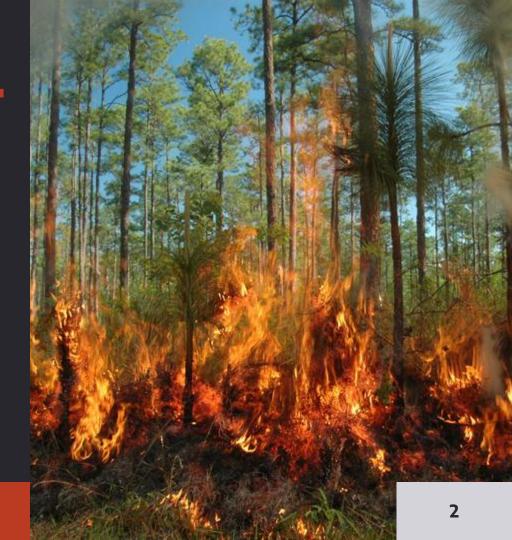
KENNY LEUNG



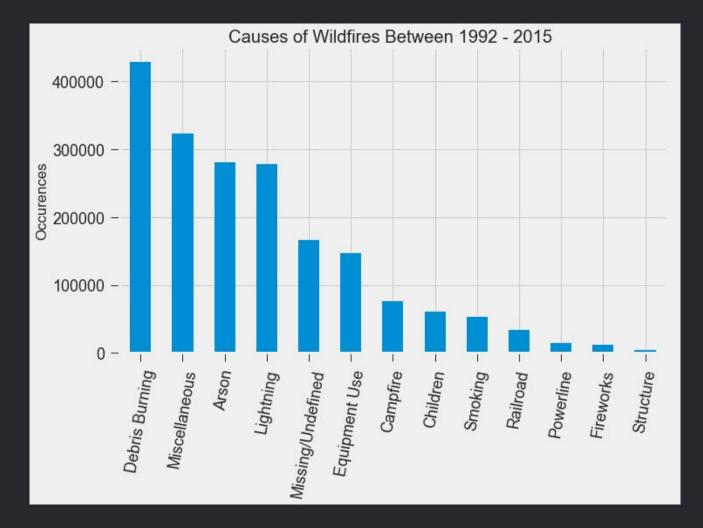
QUESTION / MOTIVATION

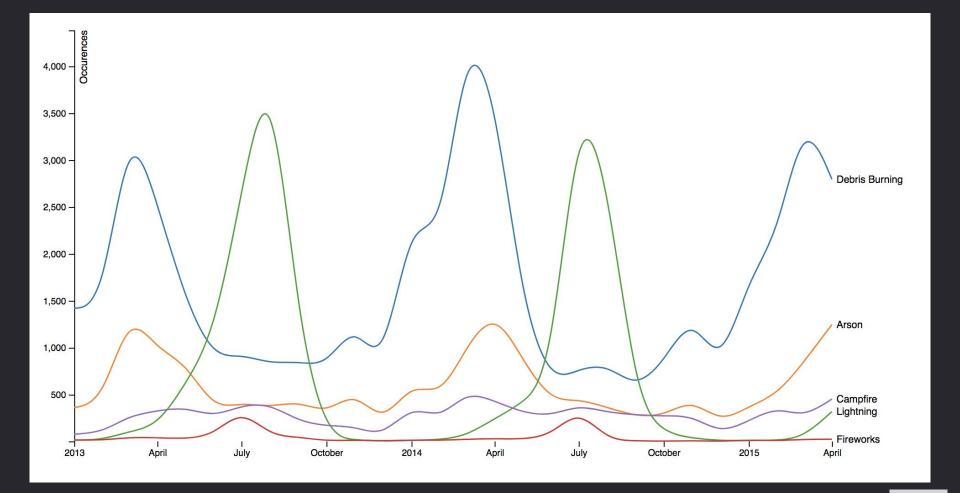
Can we predict the cause of a wildfire?

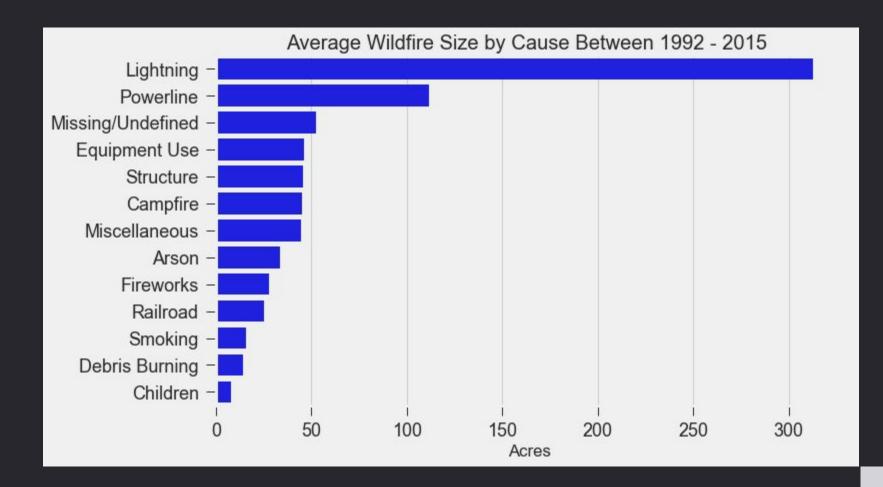


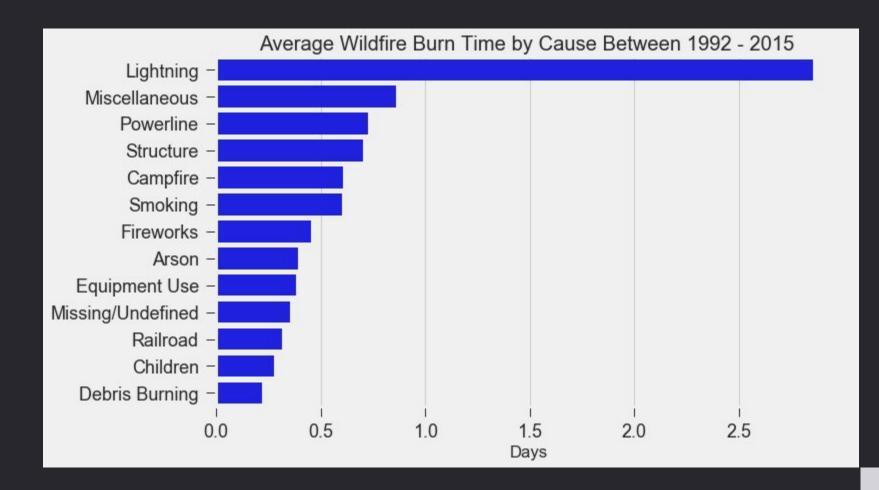


TARGET





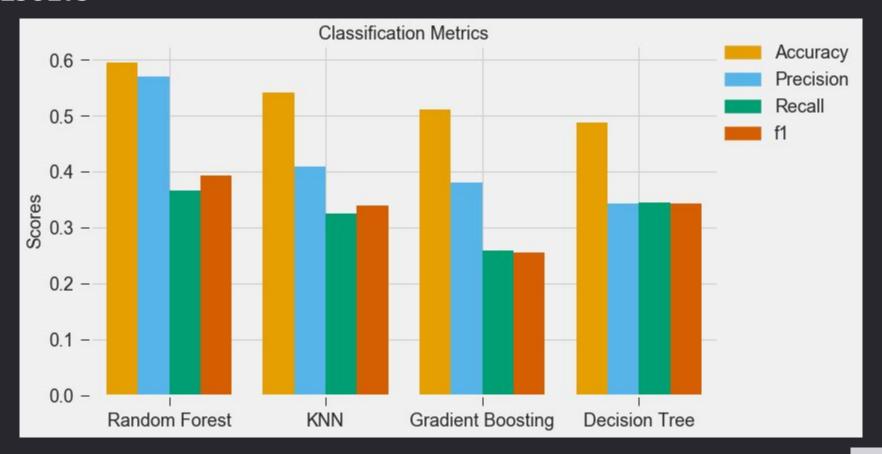




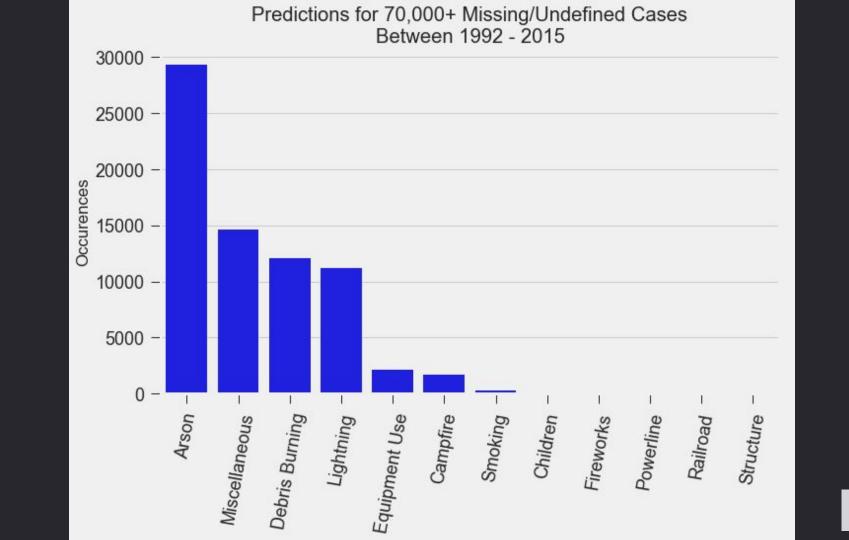
FEATURE IMPORTANCE

- Location of Fire (Latitude, Longitude)
- 2) Day of Year Fire Discovered
- 3) State in which Fire Occurred
- 4) Final Fire Size
- 5) Days Taken to Contain Fire
- 6) Year of Fire Event

RESULTS



			0		Nori	mali	zed	conf	usio	n m	atrix			_	
	Lightning	0.85	0.01	0.00	0.02	0.04	0.00	0.01	0.00	0.07	0.00	0.00	0.00	0.01	0.8
Actual label	Equipment Use	0.09	0.18	0.00	0.03	0.31	0.00	0.06	0.00	0.25	0.01	0.00	0.00	0.05	
	Smoking	0.04	0.04	0.06	0.04	0.27	0.00	0.04	0.01	0.42	0.01	0.00	0.00	0.07	0.7
	Campfire	0.14	0.02	0.00	0.35	0.26	0.00	0.03	0.00	0.16	0.00	0.00	0.00	0.02	0.6
	Debris Burning	0.02	0.02	0.00	0.02	0.77	0.00	0.06	0.00	0.10	0.00	0.00	0.00	0.01	0.0
	Railroad	0.09	0.06	0.01	0.06	0.41	0.21	0.06	0.00	0.08	0.01	0.00	0.00	0.00	0.5
	Arson	0.03	0.02	0.00	0.01	0.28	0.00	0.43	0.02	0.19	0.00	0.00	0.00	0.03	
	Children	0.04	0.03	0.01	0.02	0.38	0.00	0.14	0.13	0.19	0.01	0.00	0.00	0.05	0.4
	Miscellaneous	0.06	0.02	0.00	0.02	0.18	0.00	0.04	0.00	0.62	0.00	0.00	0.00	0.05	0.3
	Fireworks	0.10	0.03	0.00	0.03	0.20	0.00	0.04	0.01	0.20	0.34	0.01	0.00	0.03	200
	Powerline	0.12	0.06	0.00	0.03	0.43	0.00	0.06	0.00	0.25	0.00	0.04	0.00	0.02	0.2
	Structure	0.10	0.07	0.00	0.02	0.39	0.00	0.10	0.02	0.27	0.02	0.00	0.00	0.01	0.1
	Missing/Undefined	0.06	0.01	0.00	0.01	0.05	0.00	0.02	0.00	0.13	0.00	0.00	0.00	0.72	
		ning	Use	king	ofire	ning	oad	Arson	Children	sno	orks	rline	ture	peu	0.0
		Lightning	Equipment Use	Smoking	Campfire	Debris Burning	Railroad	₹	Opjic	Miscellaneous	Fireworks	Powerline	Structure	Missing/Undefined	
	Predicted label														



QUESTIONS?