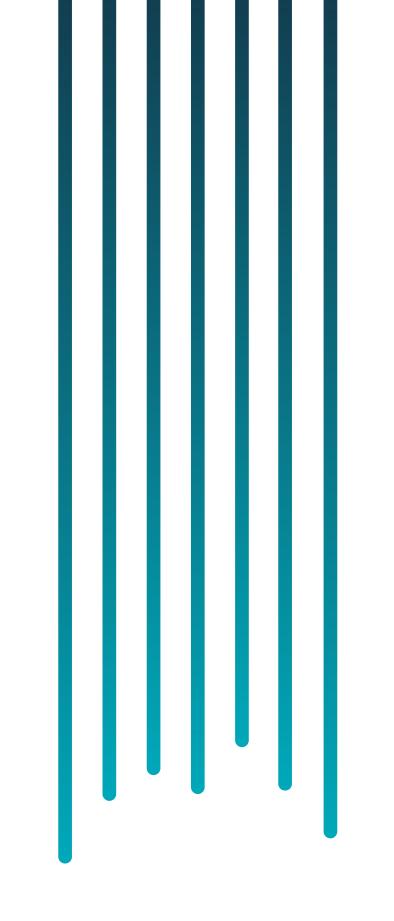


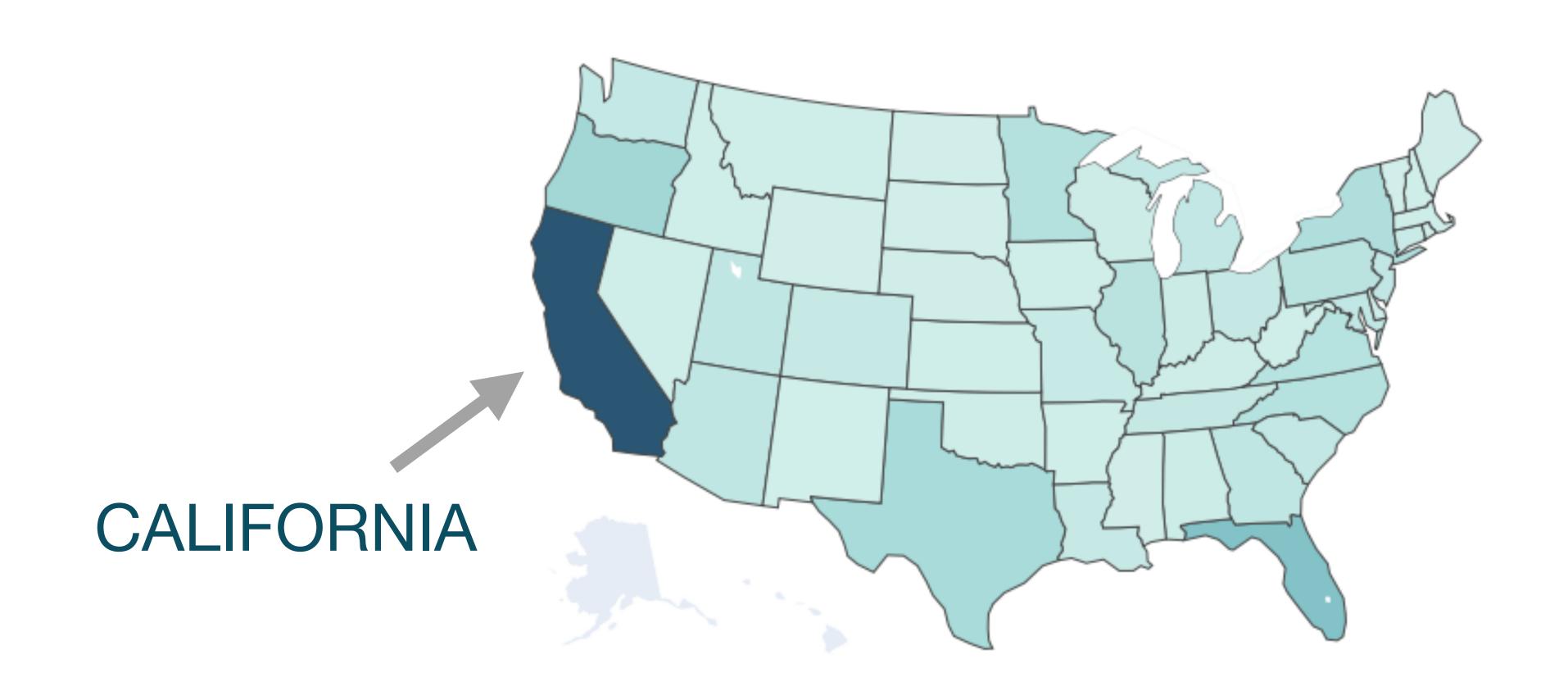
SDAIA BOOTCAMP RANEEM ALHUMAIDAN

AGENDA

- OVERVIEW
- MAIN FACTORS
- MODEL
- CONCLUSION



OVERVIEW



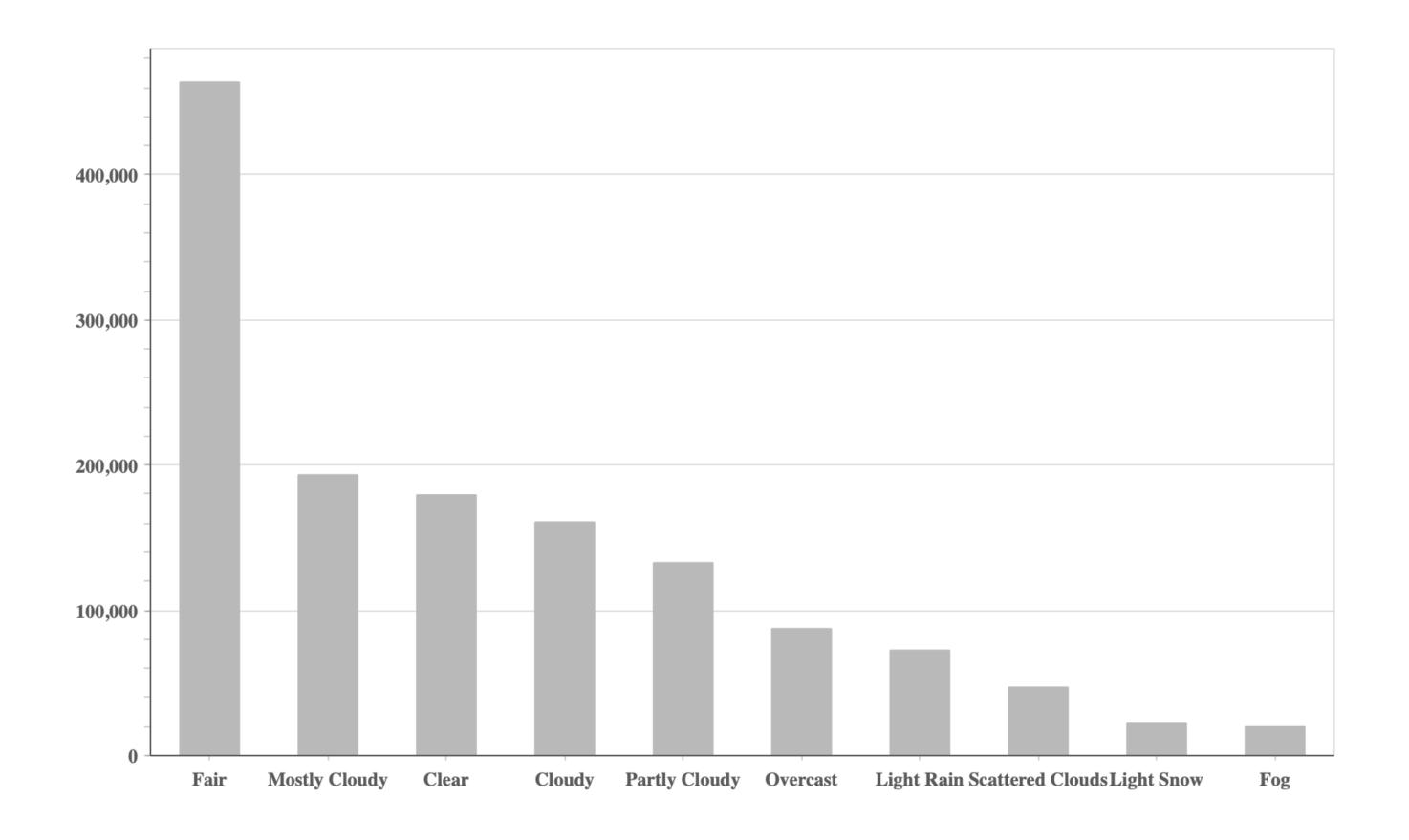
TIME

- Most Accidents occurred in Day
- 1:00pm to 6:00pm is the **peak time**
- Weak-days has highest number of accidents



WEATHER

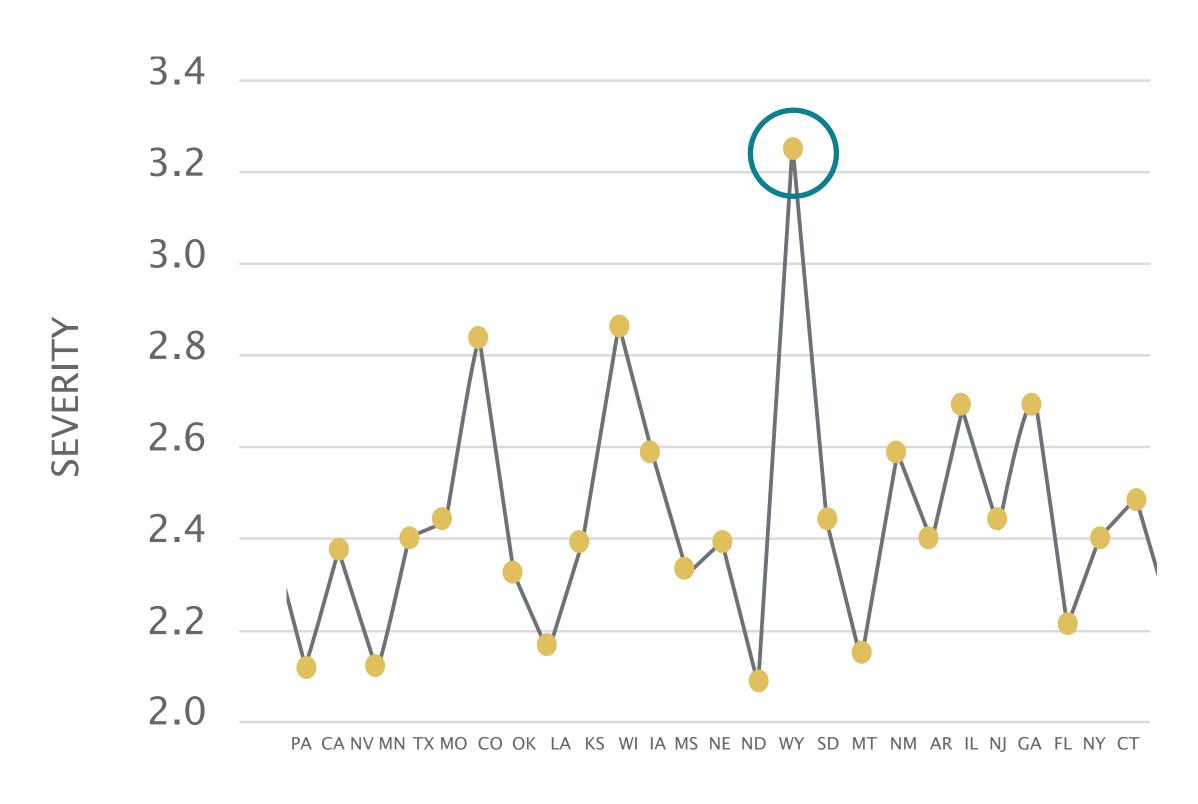
- Fair condition has highest number on accidents
- Fog condition has Lowest number on accidents



SEVERITY

- California 436,226 accidents
 Average severity ~ 2.4
- Wyoming 22,682 accidents
 average accidents severity = 3.3

Severity range between 1 - 4
4 -> highest Severity
1 -> lowest Severity



STATE

MODEL

PREDICT SEVERITY

		Logistical Regression	Decision Tree	Random Forest
MACRO AVG	F1	0.25	0.52	0.61
	Recall	0.55	0.49	0.54

		Random Forest
		[Important Features]
MACRO AVG	F1	0.63
	Recall	0.59

Little bit better

PREDICT STREET SIDE

		Logistical Regression	Decision Tree	Random Forest
MACRO AVG	F1	0.51	0.51	0.67
	Recall	0.63	0.52	0.63

		Random Forest [Important Features]
MACRO AVG	F1	0.72
	Recall	0.67

Little bit better

CONCLUSION



More accidents dose not mean high severity



Bad Weather Conditions
has no high effect in
number of accidents



Accident Location has highest effect on severity

THANKYOU AND STAY SAFE