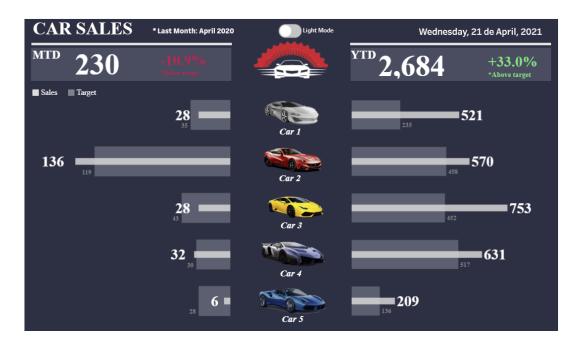
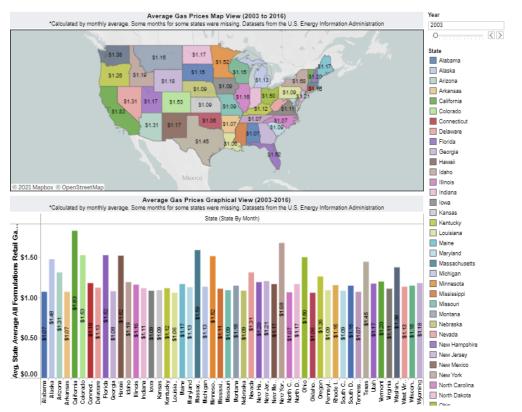
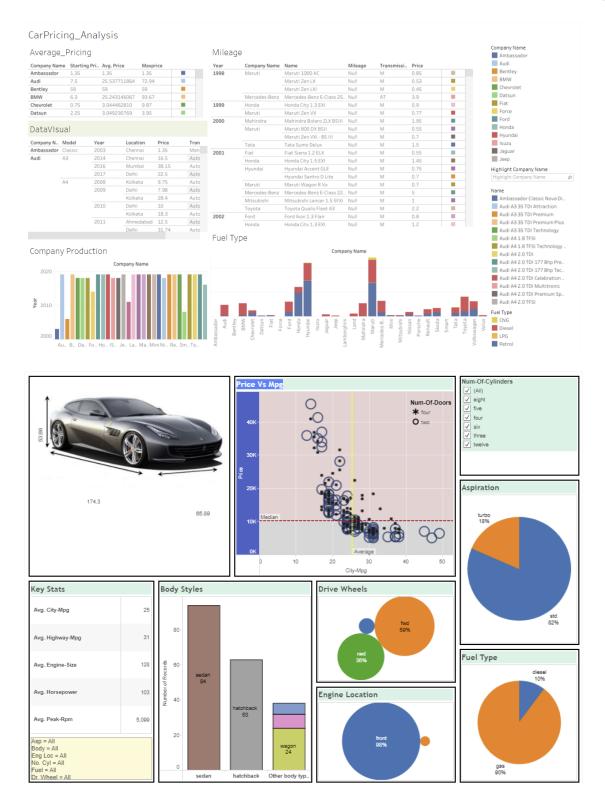
# Cap-stone: Team4

# **Topic: US Cars Auction 2020**

- 1. Dataset: https://www.kaggle.com/doaaalsenani/usa-cers-dataset?select=USA cars datasets.csv
- 2. What you plan/hope to predict:
  - Car's worth depending on the vehicle information, state. ("TrueCar.com")
- 3. Screenshots for tableau inspiration
  - Chart on price, year, model







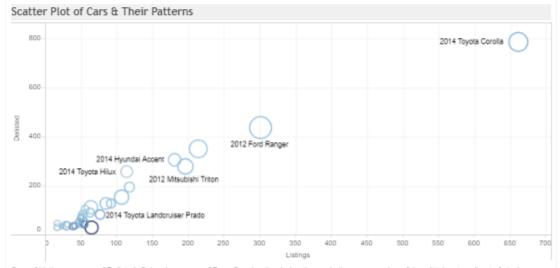
# **FASTEST MOVING CARS - DECEMBER 2015**

Filter the data by Price & Make - Simply click on one or either

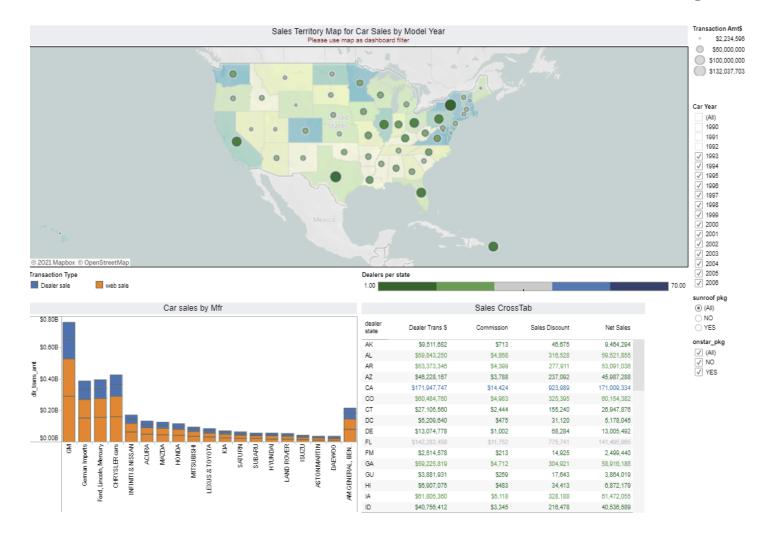


Price Bra 87.6k to 816.		Above \$30k	Make	Ford	Honda	Hyundal	leuzu	Kla	Mazda	Merced.	Mitsub	Nissan	8ubaru	8uzukl	Toyota
\$	\$\$	\$\$\$		Star		B	ISUZU	(KIA)	$\Theta$					\$	9

Price Bracket	Vehicle	Price	Age	Kilometres	Listings	Delicted	Days Supply	Watched
\$7.6k to \$16k	2004 Toyota RAV4	8,913	37	161,129	53	82	39	488
	2007 Hyundai Tuscon	9,045	39	124,998	55	43	77	295
	2008 Mazda 2	8,812	41	88,585	107	154	42	1,312
	2009 Mitsubishi Outlander	14,844	38	108,285	50	66	45	301
	2010 Nissan Tiida	10,226	39	75,748	48	50	58	408
	2011 Honda Jazz	11,752	40	58,971	51	73	42	337
	2011 Hyundai Accent	11,934	40	53,909	23	32	43	82
	2012 Mazda 2	12,027	38	42,394	92	128	43	521
	2013 Mazda 2	13,205	38	28,225	58	105	32	401
	2014 Hyundai Accent	14,017	38	28,720	181	308	35	970
\$16k to \$30k	2010 Suzuki Grand Vitara	18,200	37	92,345	54	51	64	488
	2011 Honda CR-V	20,411	33	70,489	42	38	66	241
	2011 Isuzu D-MAX	24,599	39	103,774	63	91	42	474
	2011 Kia Sorento	25,485	39	86,066	39	35	67	282
	2011 Mitsubishi Challenger	24,326	34	91,508	24	40	35	90
	2011 Mitsubishi Triton	21,726	40	104,992	214	351	37	2,003
	2012 Isuzu D-MAX	29,144	39	75,823	77	83	55	573
	2012 Mitsubishi Triton	23,893	34	78,963	198	279	42	1,505
	2013 Mitsubishi Triton	27,132	34	47,065	118	195	36	615
	2014 Toyota Corolla	19,110	40	29,385	881	798	50	2,292
Above \$30k	2012 Audi Q3	35,971	38	44,408	31	42	44	180
	2012 Ford Ranger	34,871	38	83,890	301	437	41	3,018
	2013 Audi A4	44,555	40	27,972	85	30	130	1,100
	2013 Audi Q7	75,188	38	38,963	30	38	47	481
	2013 Hyundai Santa Fe	37,278	40	49,573	50	69	43	301
	2013 Mercedes-Benz A250	48,387	37	29,224	17	31	33	237
	2013 Subaru Outback	30,150	37	48,827	17	47	22	221
	2014 Toyota Hilux	40,635	41	27,547	114	258	27	883
	2014 Toyota Landcruiser	82,944	38	29,721	64	113	34	1,124
	2014 Toyota Landcruiser Prado	58,858	37	28,943	85	128	40	850



Sum of Listings vs. sum of Delisted. Color shows sum of Days Supply - the darker the mark, the more number of days it takes to sell out of stock (assuming there is no vehicle replenishment). Size shows sum of Walched - the larger the mark, the higher the number of watchers. The marks are labeled by Vehicle. Details are shown for Vehicle. The data is filtered on Price Bracket, which keeps \$15k to \$30k. \$7.5k to \$15k and Above \$30k.



## 4. Links to code/notebooks for ML inspiration

- o <a href="https://www.kaggle.com/alfathterry/cars-price-prediction-automl">https://www.kaggle.com/alfathterry/cars-price-prediction-automl</a>
- o <a href="https://www.kaggle.com/aman10kr/us-car-sale">https://www.kaggle.com/aman10kr/us-car-sale</a>
- o <a href="https://www.kaggle.com/adyajaiswal/usa-cars-data-analysis">https://www.kaggle.com/adyajaiswal/usa-cars-data-analysis</a>

### 5. Break down of roles/responsibilities

- o Machine Learning/Flask: Justin Merryman
- o Tableau: Patricia Berry, Cade Culver, Karla Murphy
- o Web design: Cade Culver, Karla Murphy
- o Write Up: Patricia Berry
- o Power Point: Karla Murphy
- o Read me: All

#### 6. Basic hypotheses, trends

- o Identify sales trends so we can predict the car pricing and future sales.
- o Sales trends by model, year, location and milage.
- 7. Design inspirations color schemes, fonts, etc.
  - o <a href="https://coolors.co">https://coolors.co</a>
  - o <a href="https://bootswatch.com/slate/">https://bootswatch.com/slate/</a>
  - https://bootswatch.com/lux/