

What in tarnation?



 Help users find less crowded parking located near engaging activities of their choice, whether bustling hotspots or hidden gems.



• Uses historical data to predict congestion trends of real-time parking availability for locations in Austin, Texas.

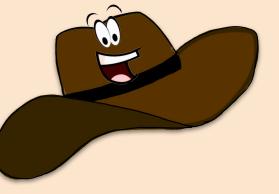




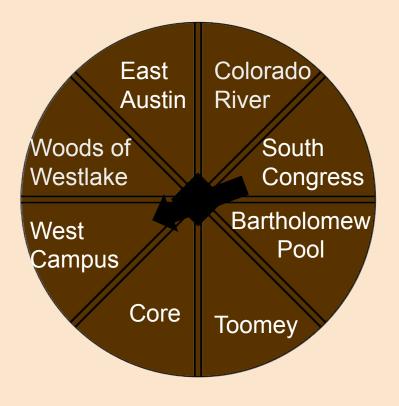
First Look at the Frontier



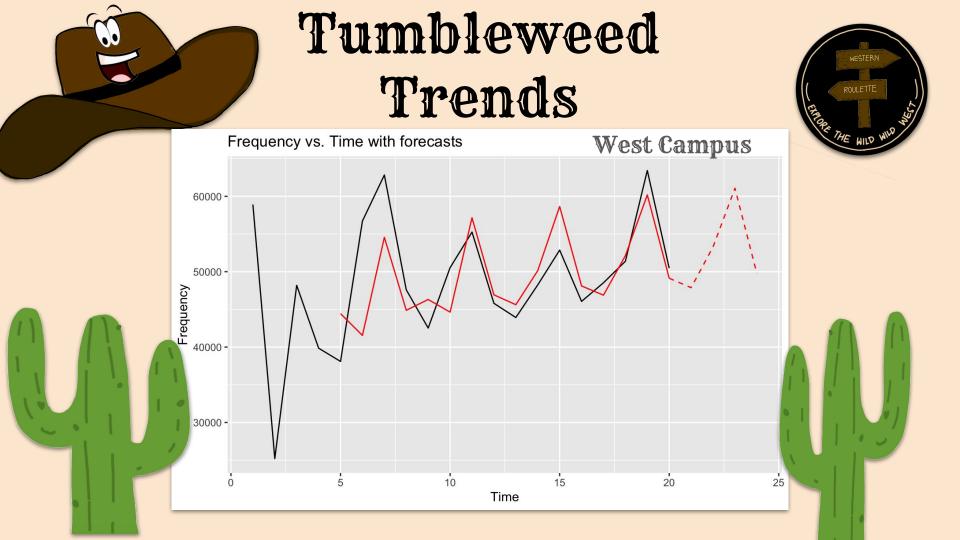
	ID	Source	Duration in Minutes	Start Time	End Time	Amount	Kiosk ID	App Zone ID	App Zone Group	Payment Method	Location Group	Last Updated
0	358997715	Passport - app	180.0	03/31/2022 09:34:00 AM	03/31/2022 12:34:00 PM	7.30	NaN	39491.0	Non-Core	App - Wallet	Non-Core	05/04/2023 10:26:29 PM
1	358997748	Passport - app	14.7	03/31/2022 09:34:00 AM	03/31/2022 09:48:42 AM	0.80	NaN	39104.0	CORE	App - Wallet	Core	05/04/2023 10:26:29 PM
2	358997768	Passport - app	390.0	03/31/2022 09:34:00 AM	03/31/2022 04:04:00 PM	21.05	NaN	39141.0	CORE	App - Wallet	Core	05/04/2023 10:26:29 PM
3	358997894	Passport - app	135.0	03/31/2022 09:35:00 AM	03/31/2022 11:50:00 AM	4.80	NaN	39567.0	Non-Core (Toomey)	App - Wallet	Toomey	05/04/2023 10:26:29 PM
4	358997981	Passport - app	15.0	03/31/2022 09:35:00 AM	03/31/2022 09:50:00 AM	0.80	NaN	39603.0	West Campus PBD	App - Wallet	West Campus	05/04/2023 10:26:29 PM
		***	(1000)					••••				3445
224138	633460299	Passport - app	105.0	01/24/2025 10:25:00 AM	01/24/2025 12:10:00 PM	3.90	NaN	39246.0	CORE	App - Credit Card	Core	02/08/2025 03:46:25 PM
224138	88 633460241	Passport - app	30.0	01/24/2025 10:24:00 AM	01/24/2025 10:54:00 AM	1.40	NaN	39236.0	CORE	Apple Pay	Core	02/08/2025 03:46:25 PM
224138	39 633460168	Passport - app	75.0	01/24/2025 10:25:00 AM	01/24/2025 11:40:00 AM	2.90	NaN	39461.0	Non-Core	App - Credit Card	Non-Core	02/08/2025 03:46:25 PM
224139	00 633460063	Passport - app	75.0	01/24/2025 10:25:00 AM	01/24/2025 11:40:00 AM	2.90	NaN	39602.0	West Campus PBD	App - Credit Card	West Campus	02/08/2025 03:46:25 PM

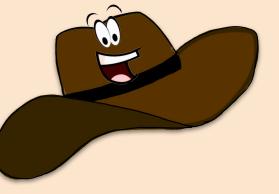


Roulette





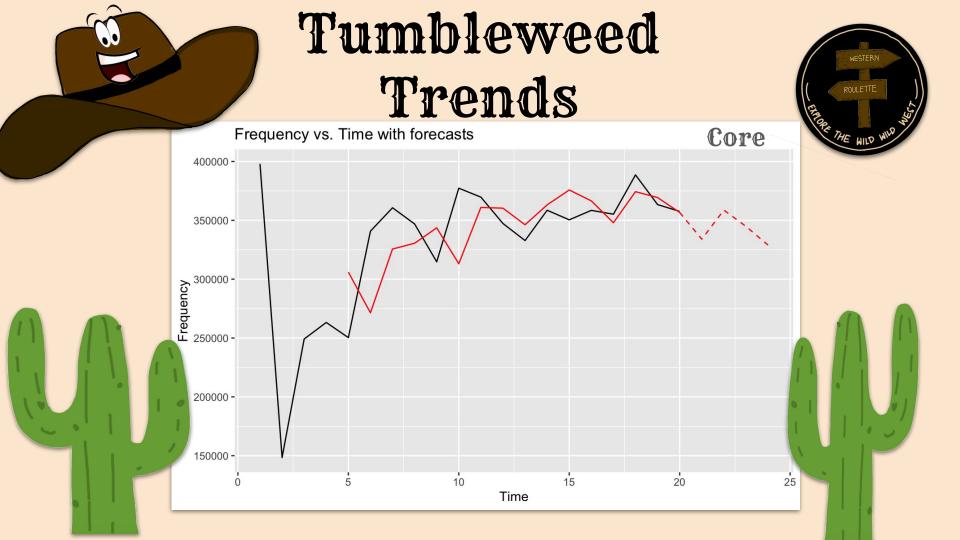




Roulette









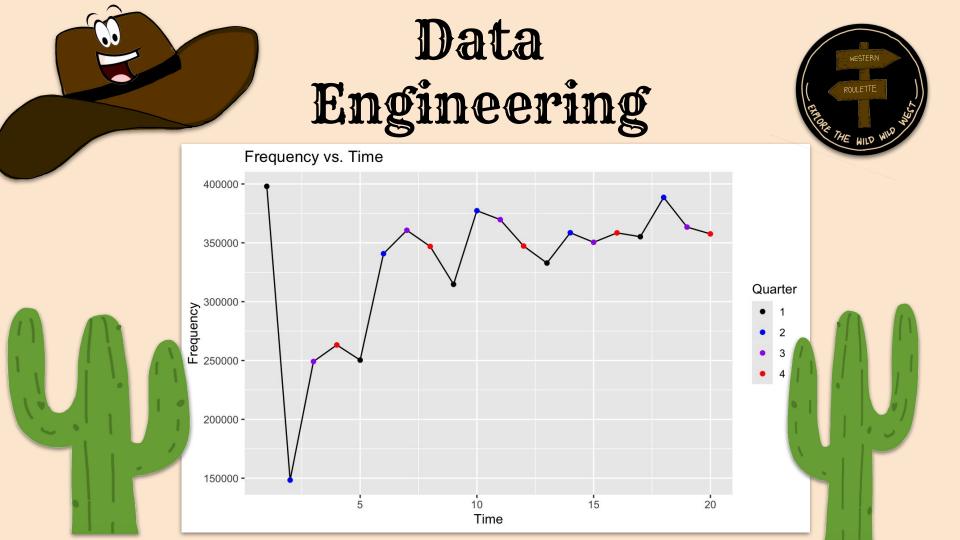
Technology

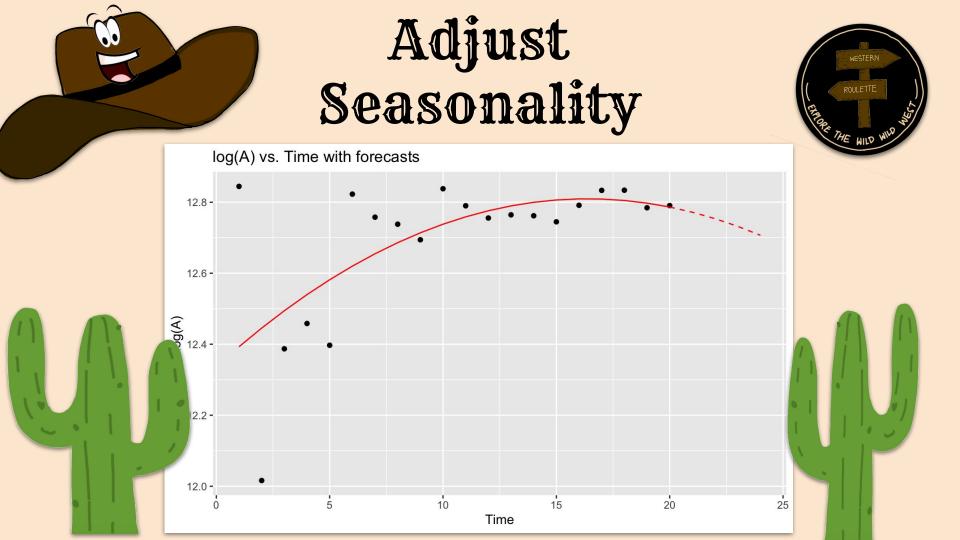
- Python, R
- Time Series Deterministic Model
- Methodology
 - Data engineering
 - STL decomposition
 - Adjust seasonality
 - Time Series Linear Model
 - Compute Ou-Sample Forecast
 - Validate assumptions







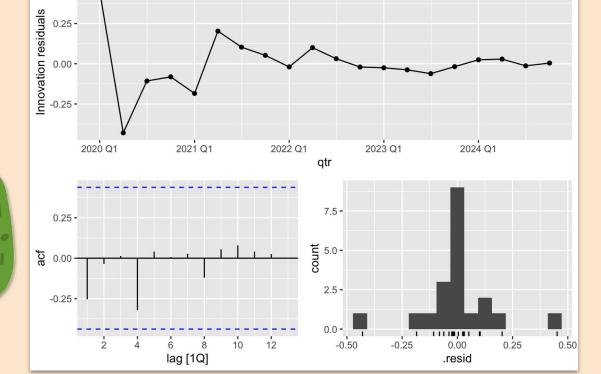






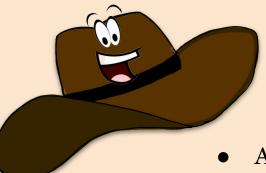
I.I.D.











Best Use of Data



- Anticipates future congestion based on historical data
- User customizable
- Trustworthy results
- Improves over time





