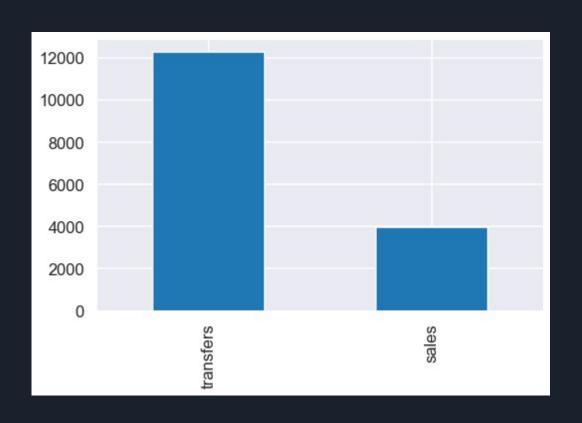
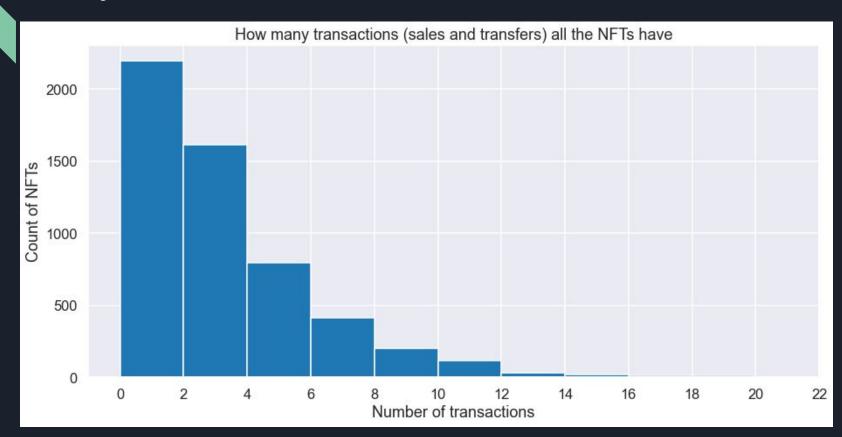
# NFT Hackathon Analysis and Machine Learning

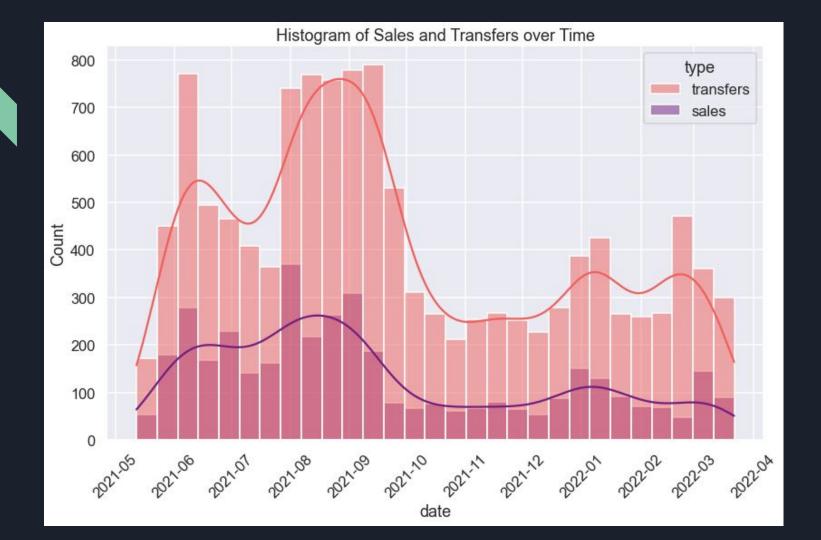
Let's Visually Explore the VeeFriends Dataset

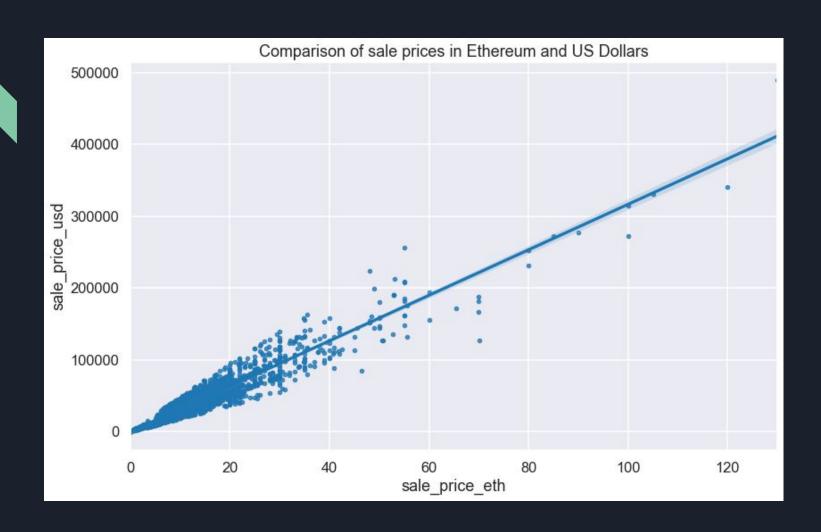
#### Count of Transfers vs Sales

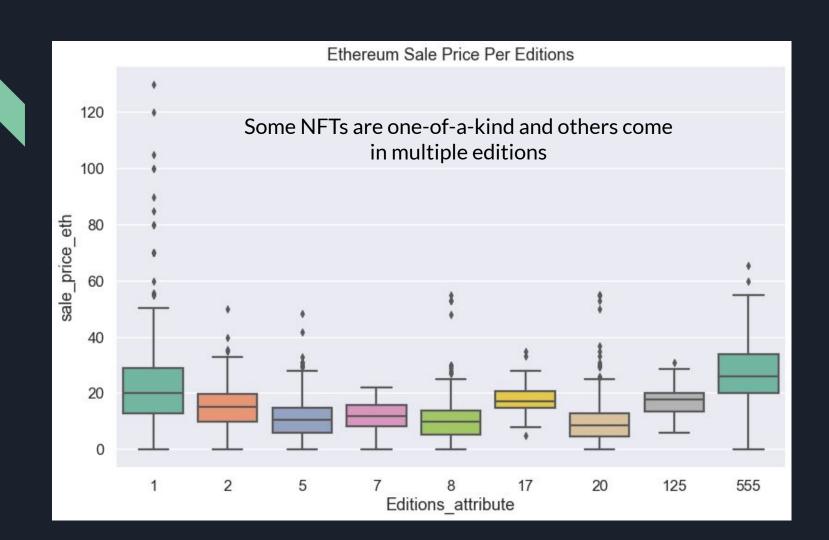


#### Very few NFTs have 10 or more total transactions







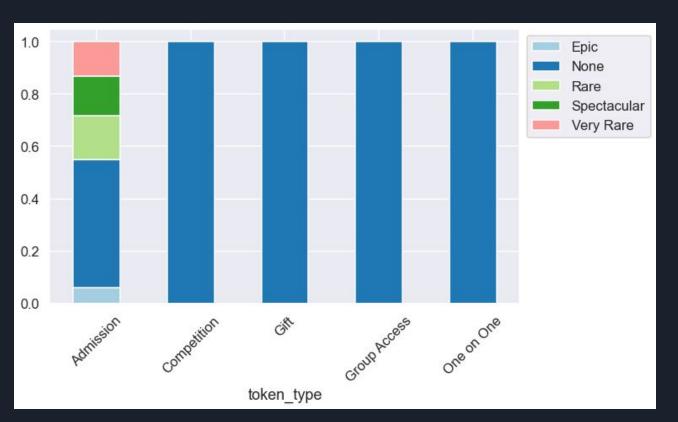


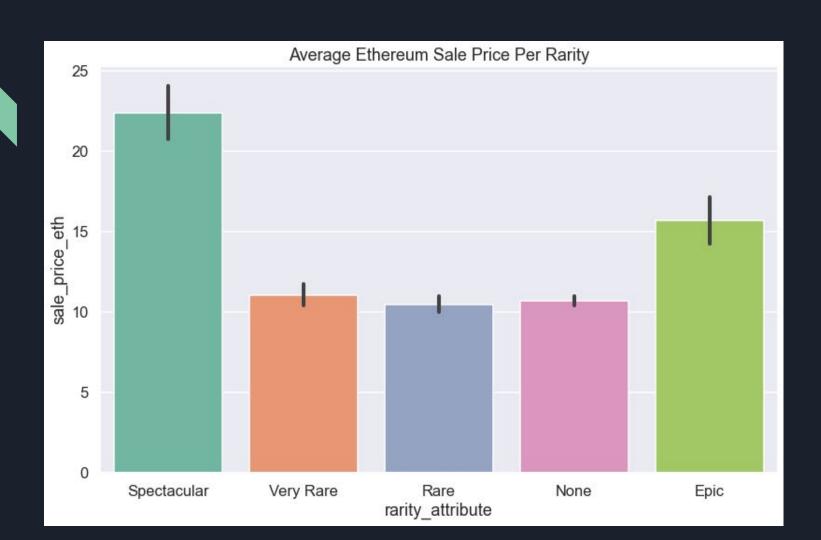
## The VeeFriends NFTs with more valuable perks have a naming scheme that's self-explanatory

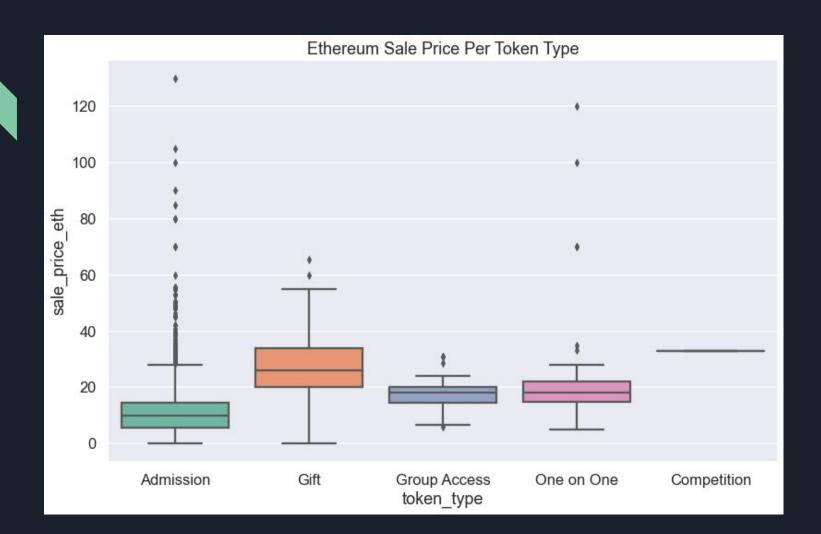
			asset_id
benefit_attribute	adjective_attribute	name	
	Basketball	Basketball Butterfly	1
	Bowling	Bowling Boa	5
	<b>Bubble Hockey</b>	Bubble Hockey Basset Hound	1
Competition	Checkers	Checkers Chicken	1
	Ping Pong	Ping Pong Kalong	1
	Uno	Uno Unicorn	1
	Video Game	Video Game Vulture	1
	Breakfast	Breakfast Bat	3
	Brunch	Brunch Bear	5
Group Access	Dinner	Dinner Deer	3
	Hangout	Hangout Hawk	73
	Lunch	Lunch Lady Bug	7

	Courtside	Courtside Cat	1
		Facetime Five	6
One on One		Facetime Flea	11
	Facetime	Facetime Fly	9
		Facetime Fox	11
		Facetime Frog	9
	Garage Sale	Garage Sale Yale	1
	Keynote	Keynote Koala	2
	Podcast	Podcast Panther	3
	Workout	Workout Wolf	1

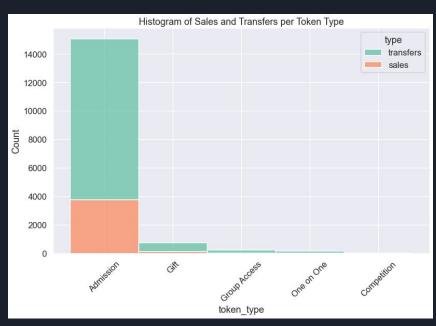
## Only the Admission type had NFTs with a rarity attribute



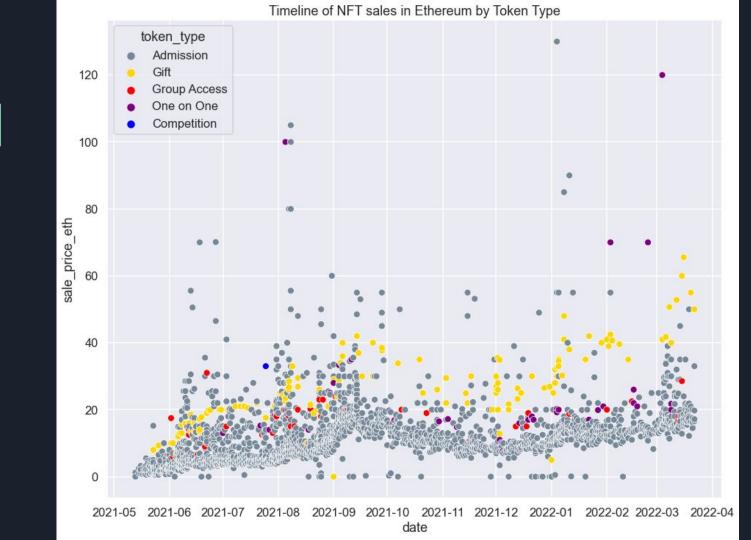


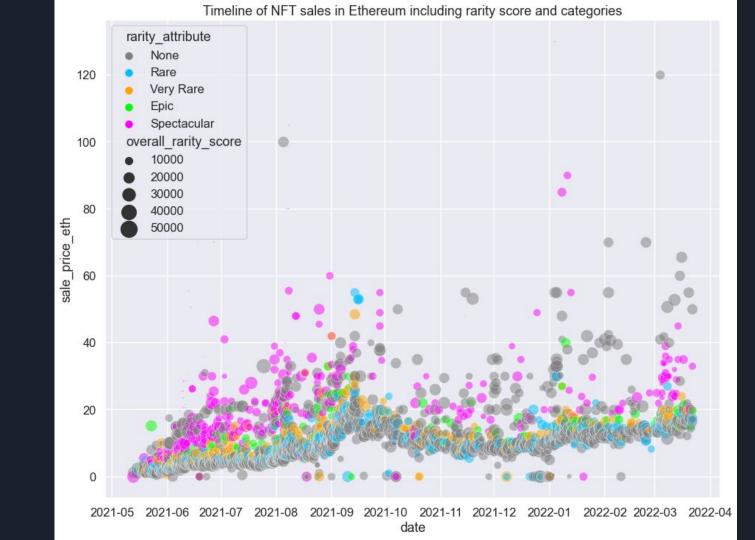


## Admission NFTs had the most sales and transfers and were priced the lowest on average



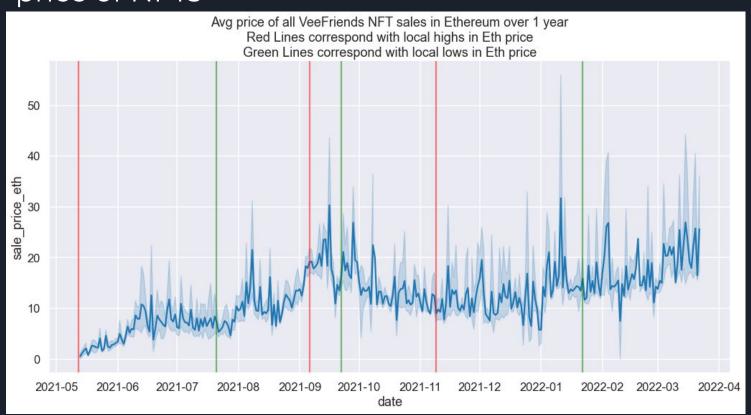




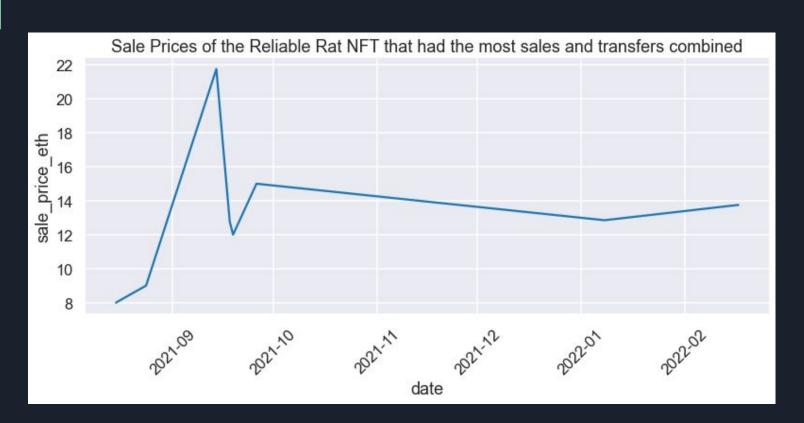




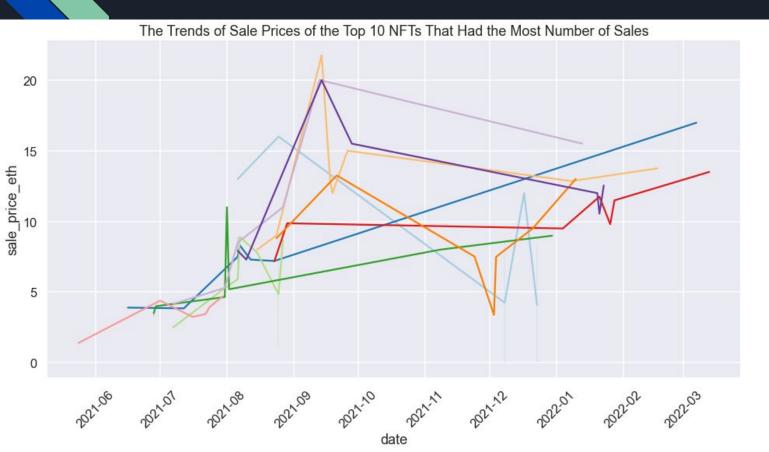
## The price of Ethereum seems to influence the price of NFTs



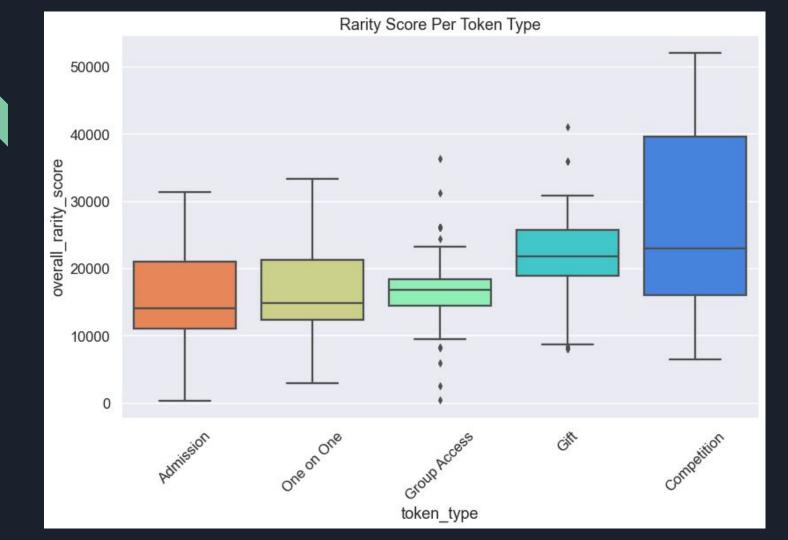
#### Sale prices of the most moved NFT: Reliable Rat



#### There is a general positive trend





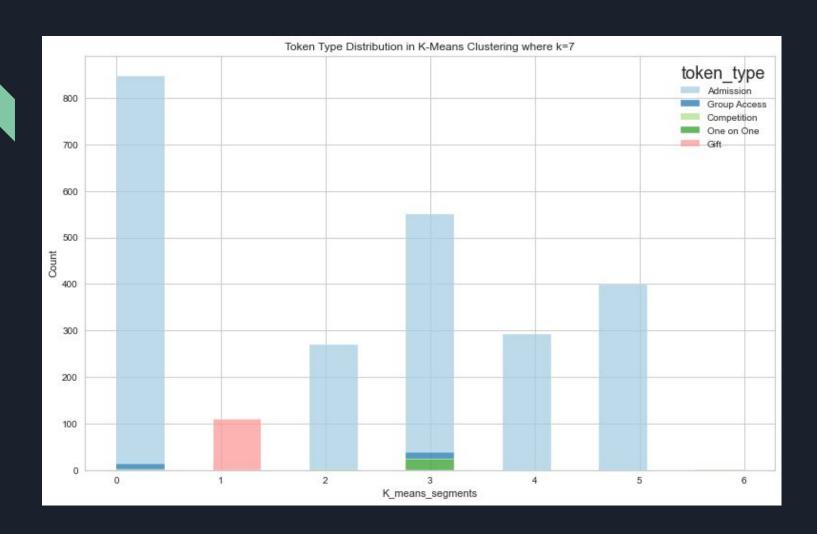


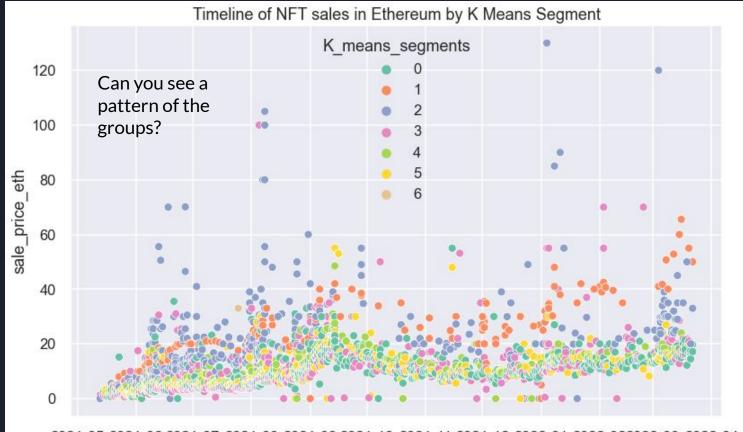
### Vee Friends NFTs that sold for over a quarter million dollars at the time of sale

ng.	asset_id	date	sale_price_usd	sale_price_eth	name	token_type	rarity_attribute
0	2198	2021-08-05	272453.000000	100.0	Courtside Cat	One on One	NaN
1	385	2021-08-08	315122.000000	100.0	Adaptable Alien	Admission	Spectacular
2	472	2021-08-08	330878.100000	105.0	Alert Ape	Admission	Spectacular
3	2962	2021-08-08	252097.600000	80.0	Entrepreneur Elf	Admission	Spectacular
4	6925	2021-11-15	255912.250000	55.0	Patient Panda	Admission	NaN
5	2823	2022-01-04	490022.000000	130.0	Empathy Elephant	Admission	Spectacular
6	9130	2022-01-08	272152.150000	85.0	Thoughtful Three Horned Haripik	Admission	Spectacular
7	9133	2022-01-11	277805.700000	90.0	Thoughtful Three Horned Haripik	Admission	Spectacular
8	7279	2022-03-04	340428.760392	120.0	Podcast Panther	One on One	NaN

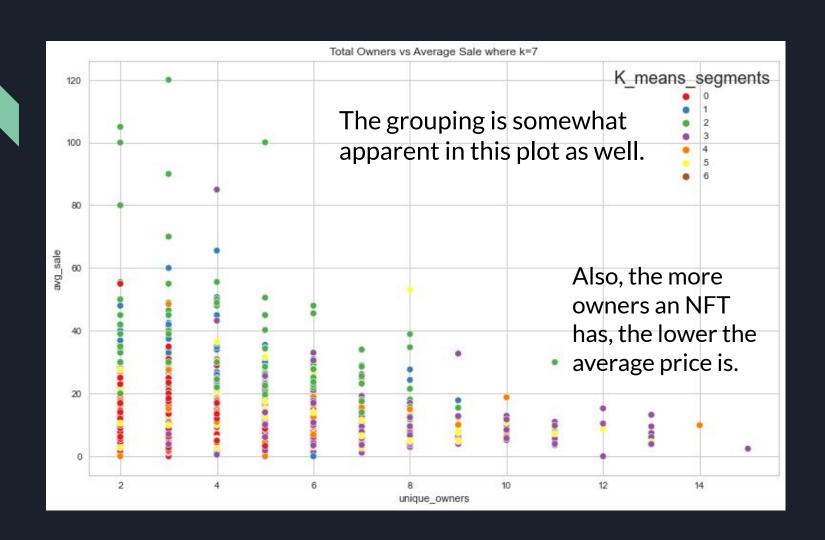
Using machine learning, I decided to cluster the NFTs into 7 groups. Take a look.







2021-05 2021-06 2021-07 2021-08 2021-09 2021-10 2021-11 2021-12 2022-01 2022-022022-03 2022-04 date



#### Conclusions

Someone interested in buying or selling an NFT might want to pay attention to:

- Fluctuations in Ethereum prices
- The rarity of the NFT
- The overall general interest for NFTs (Google searches)
- The benefits and perks associated with the NFTs
- The number of previous owners, transfers, and sales
- NFT project community engagement and user sentiment

There seems to be more obvious patterns in the data before clustering was applied. The clustering wasn't very impressive, and that's probably because NFT sales are influenced by much more than meets the eye. I speculate that a higher number of clusters would find better patterns. Finally, I think NFTs in general are a barometer of speculation and risk-taking, and it will take decades before reliable predictions can be made.

For the full Python Jupyter Notebook, please visit: https://github.com/emili ehwolf/nfthackathon/bl ob/main/NFT\_VeeFriend s\_Wolf\_final.ipynb