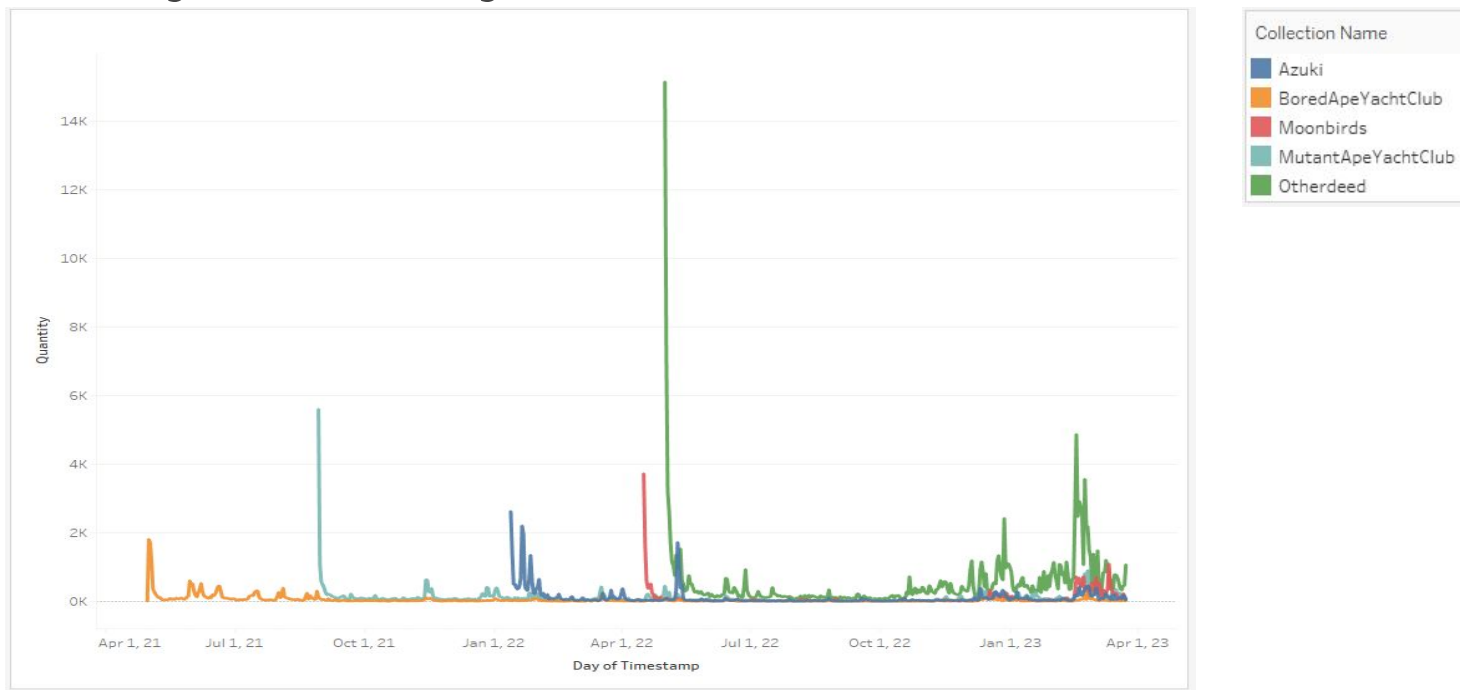


NFT Price Analysis

Unraveling Trends in Collections

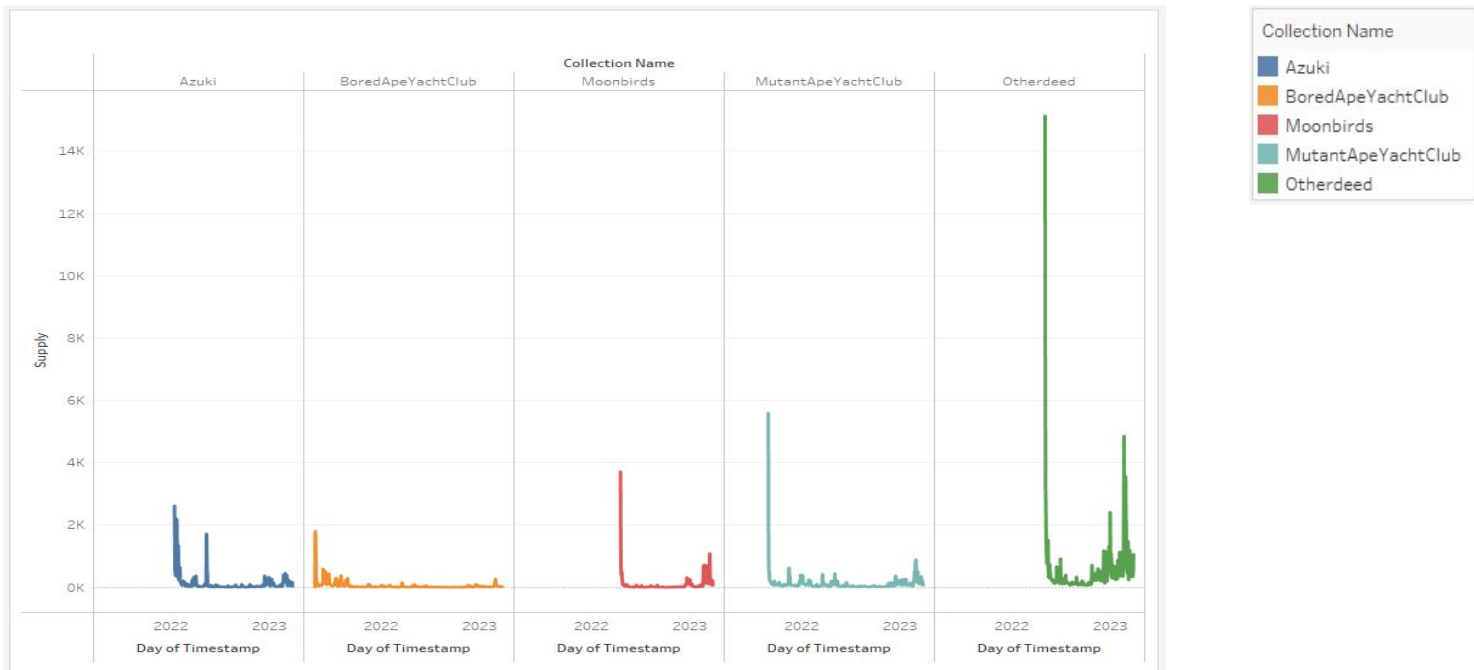


Daily Sales by Collection



- Mint dates for each collection correspond to significant spikes in sales volume

Daily Sales by Collection



- Notable anomalies in 2023: Otherdeed and Moonbirds exhibit pronounced surges in sales activity

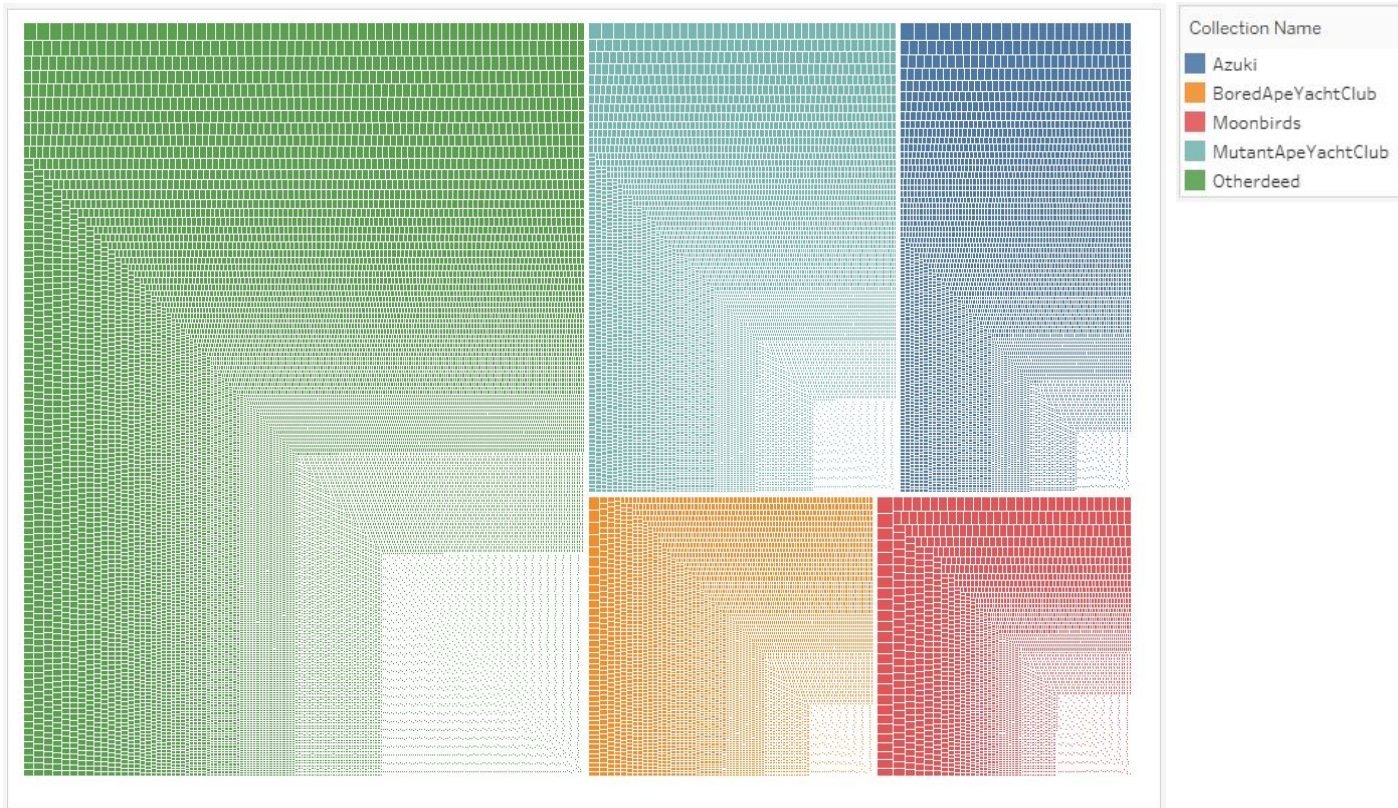


Overview of NFT Collections

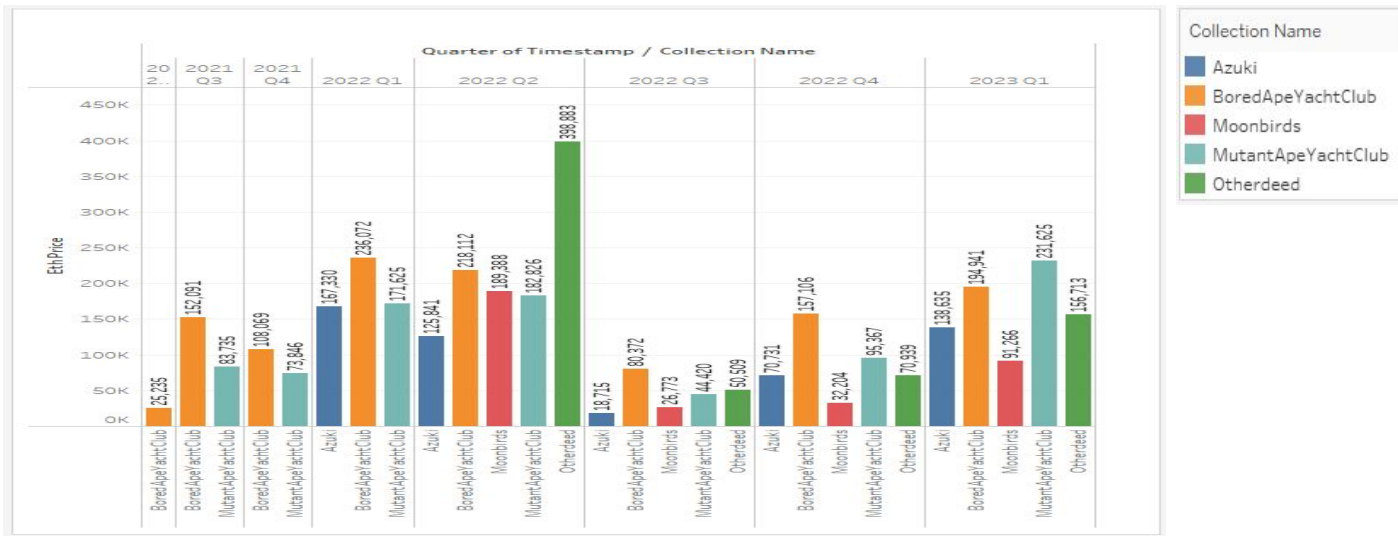
Collection Name	Min. Timestamp	☰ Max. Timestamp	Max. Usd Price	Max. Eth Pr..	Quantity
BoredApeYachtClub	4/30/2021 12:38:59 PM	3/23/2023 11:11:47 AM	2,922,371	1,080.69	33,483
MutantApeYachtClub	8/29/2021 1:05:16 AM	3/23/2023 11:15:23 AM	2,497,360	800	60,544
Azuki	1/12/2022 6:04:15 PM	3/23/2023 11:52:35 AM	1,424,801.52	420.7	45,734
Moonbirds	4/16/2022 3:06:47 PM	3/23/2023 9:56:35 PM	1,038,495.5	350	30,070
Otherdeed	5/1/2022 1:06:06 AM	3/23/2023 11:57:23 PM	1,640,268.75	625	175,690

- **Bored Ape Yacht Club:** Earliest mint date, highest max USD sale, moderate total sales
- **Mutant Ape Yacht Club:** Slightly lower max USD sale, highest total sales among listed collections
- **Azuki:** Mid-range mint date, lower max USD sale, moderate total sales
- **Moonbirds:** Recent mint date, lowest max USD sale, lowest total sales
- **Otherdeed:** Most recent mint date, high max USD sale, significantly higher total sales compared to other collections

Volume per Token for Each Collection



Quarterly Collection Volume



- **Otherdeed's** recent emergence and exceptional total sales signify a strong market interest
- **Bored Ape Yacht Club's** longevity, coupled with its highest max USD sale, showcases enduring market value
- **Mutant Ape Yacht Club's** sales volume highlights the collection's broad appeal within the NFT space
- **Moonbirds** and **Azuki** may have untapped potential, warranting further investigation into factors influencing their market performance



Volume per Token for Each Collection

Collection Name	Top Token ID	Volume
Otherdeed	95769	103
Mutant Ape Yacht Club	9199	86
Moonbirds	8424	116
Bored Ape Yacht Club	2045	60
Azuki	7149	106



Trait Analysis of Most Liquid Tokens Across NFT Collections

- Mutant Ape Yacht Club (9199):
 - a. Most valuable trait: M1 Phoneme Wah (1.25% occurrence)
 - b. Dominant traits: No Earring (70.22%), 5 total traits (23.97%)
- Otherdeed (95769):
 - a. Most valuable trait: Glacia Environment (6.38% occurrence)
 - b. Dominant traits: No Artifact (79.52%), No Eastern/Northern/Southern/Western Resource (54.9%-55.3%)
- Moonbirds (8424):
 - a. Most valuable trait: Professor Body (5.5% occurrence)
 - b. Dominant traits: No Outerwear (83.11%), No Eyewear (82%)
- Bored Ape Yacht Club (2045):
 - a. Most valuable trait: X Eyes (2.43% occurrence)
 - b. Dominant traits: No Earring (70.23%), 6 total traits (53.23%)
- Azuki (7149):
 - a. Most valuable trait: Relaxed Eyes (3.39% occurrence)
 - b. Dominant traits: Human Type (90.18%), No Special (93.71%)
- High percentage of common traits may indicate broader market appeal or buyers that are targeting floor tokens
- Unique traits often contribute to the liquid NFTs' value in their respective collections
- Investigating the interplay between valuable and dominant traits can uncover potential market trends within each collection



Regression-based Machine Learning Model

Possible features to be used in a model:

1. **Rarity Metrics:**
 - Average rarity score of the collection
 - Occurrence of rare traits in the collection
 - Most valuable trait's rarity score
2. **Market Dynamics:**
 - Platform the token is being sold on
 - Recent sales volume (e.g., past 30 days)
 - Price volatility (standard deviation of daily price changes)
 - Historical price trends (e.g., moving averages)
3. **Token Metadata:**
 - Total number of traits
 - Dominant traits occurrence
 - Most valuable trait occurrence
 - Distribution of traits within the collection
4. **External Factors:**
 - Sentiment Analysis on Collection from Social Media
 - Cryptocurrency market trends (e.g., Ethereum price)
 - News and events related to the collection or the broader NFT market
 - Macro indicators (e.g., economic indicators, investor sentiment)

With these features, a machine learning model like a Gradient Boosting Regressor or a Neural Network could be trained on historical NFT floor price data.

After training and validation, the model can be used to predict floor prices for the given NFT collections.