Lab Session: OpenSea Collection Analysis
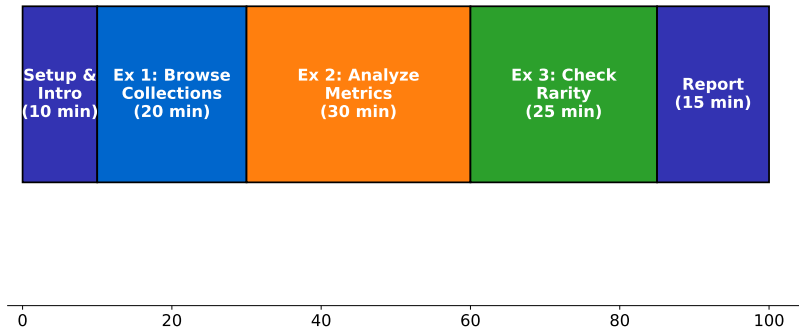## BSc Blockchain, Crypto Economy & NFTs

Course Instructor

Module C: NFTs & Digital Assets

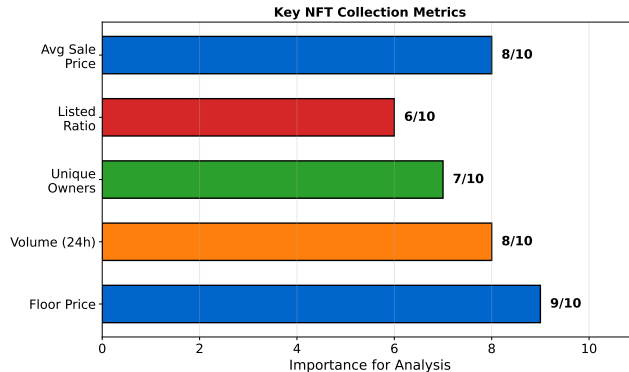By the end of this lab session, you will be able to:

- Navigate OpenSea marketplace effectively
- Analyze NFT collection metrics
- Evaluate rarity using trait analysis
- Identify legitimate vs suspicious collections
- Use third-party rarity tools

Lab Session Structure

OpenSea Analysis Lab: 100 Minutes

Setup & Intro (10 min)	Ex 1: Browse Collections (20 min)	Ex 2: Analyze Metrics (30 min)	Ex 3: Check Rarity (25 min)	Report (15 min)

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0        20        40        60        80        100
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Focus on analysis skills, not purchasing

Key NFT Collection Metrics

Metric	Importance for Analysis
Avg Sale Price	8/10
Listed Ratio	6/10
Unique Owners	7/10
Volume (24h)	8/10
Floor Price	9/10

Floor price and volume are the most watched metrics

Exercise 1: Browse Collections

Navigate OpenSea:

1. Visit: https://opensea.io
2. Explore Rankings: Top collections by volume
3. Select a collection (e.g., Bored Apes, Azuki, Pudgy Penguins)
4. Note: floor price, total volume, owner count

Collection Stats to Record:

- Total items and unique owners
- Floor price and 7-day volume
- Creator royalty percentage
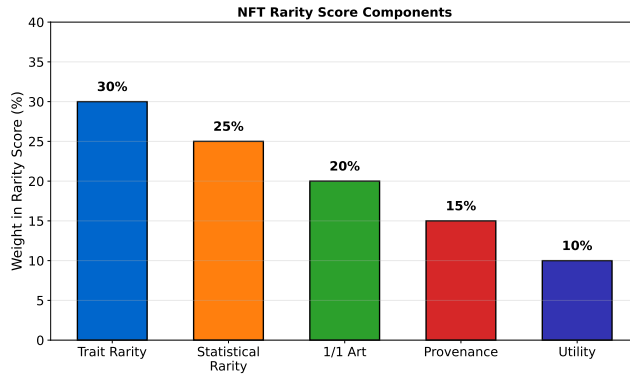- Contract verification status

Exercise 2: Metric Analysis

Key Metrics Explained:

- **Floor Price**: Lowest listed price
- **Volume**: Total trading activity (ETH)
- **Listed Ratio**: % of collection for sale
- **Unique Owners**: Distribution measure

Analysis Questions:

1. Is floor price stable or volatile?
2. High volume with low owners = wash trading?
3. What % of collection is listed? (High = bearish)

NFT Rarity Score Components

Trait rarity is typically the largest factor in NFT valuation

Exercise 3: Rarity Analysis

Tools:

- Rarity.tools
- Trait Sniper
- OpenSea trait filters

Tasks:

1. Select an item from your chosen collection
2. List all traits and their rarity percentages
3. Calculate approximate rarity rank
4. Compare price to similar rarity items

Lab Deliverables

Submit:

1. **Collection Analysis (2 pages):**
   - Collection name and contract address
   - Key metrics summary
   - Rarity analysis of one item
   - Market health assessment

2. **Screenshots:**
   - Collection stats page
   - Individual item with traits
   - Price history chart

Key Takeaways

- Floor price is the key metric for collection health
- High unique owner count indicates strong distribution
- Rarity drives individual NFT pricing
- Watch for wash trading (high volume, few owners)
- Verify contract and creator reputation