Project Report – NFT Analytics Dashboard

1. INTRODUCTION

1.1 Overview

The NFT market is booming now. We have seen shocking sales of NFTs at unexpected prices. As a result, more people are getting interested in NFTs, either as an investor or an artist. To get to know a new field and make sure you put money in the right place, you can rely on data to stay away from hearsay and decide which NFT to buy by yourself or which NFT to sell. Analytics dashboards and reports can be created to know more about NFT.

1.2 Purpose

The purpose the of the project is to create an effective and dynamic dashboard that is understandable to an individual, who is completely new to the field of NFT's. Creation of such dashboard will clear all the hearsays or vague predictions from the head of the user as the data speaks for itself. The dashboard should acknowledge all the factors that comes into the play during, buying an NFT.

2. LITERATURE SURVEY

2.1 Existing problem

There are many dashboards and analytics online which show NFT trends to look at. But none of them address educating the beginners.

2.2 Proposed solution

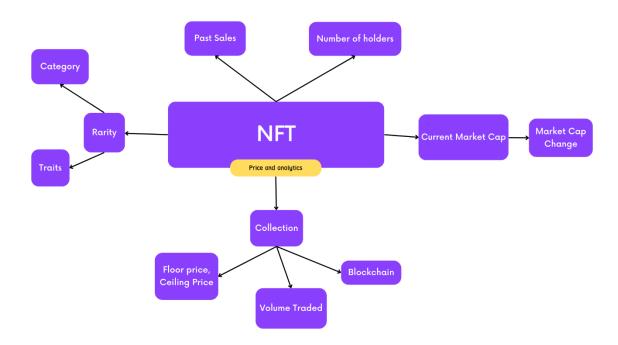
Generally, a basic dashboard just gives you some analysis. Whereas our dashboard not only gives you graphical representation of the analysis, it:

- Explains what does the graph tells.
- Explains what are the factors considered in the analysis.
- Explains why are the factors considered in this particular analysis.
- Explains when should these factors be considered.

Apart from analysis, the dashboard also provides deep knowledge to the user about NFT and its latest highlights.

3. THEORITICAL ANALYSIS

3.1 Block diagram



The price of NFTs depends on a lot of different factors such as the collection it is present in, its rarity, number of holders of that NFT, past sales etc.

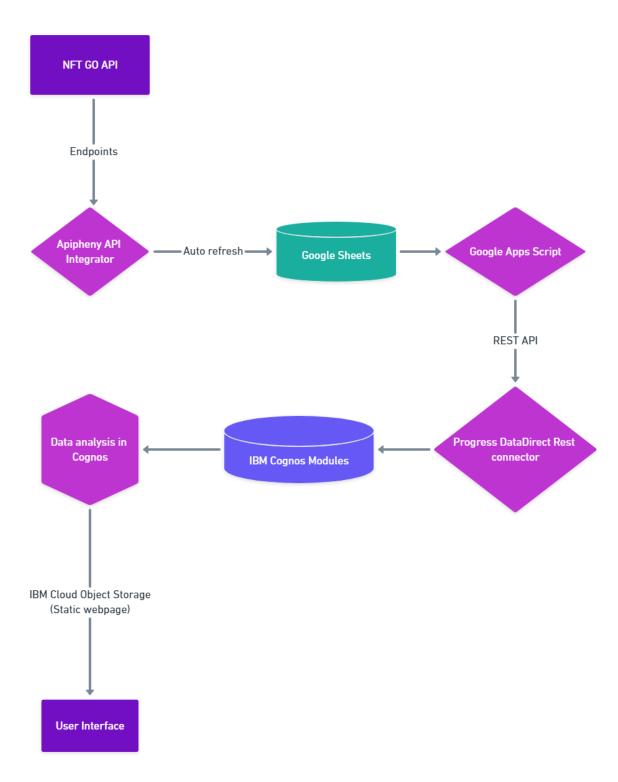
3.2 Hardware / Software designing

Any device with internet connectivity and a web browser is sufficient to view our analysis using our IBM credentials.

4. EXPERIMENTAL INVESTIGATIONS

After researching a lot about NFTs and their prices we have found that unlike stocks, NFTs are not that predictable. An NFT can be sold at any high price due to its uniqueness. While there is uncertainty in predicting price of a new NFT, the price and demand of NFTs can be linked with the collection it is present in. For example, an NFT from Bored Ape Yacht Club may be sold easily at a high price than any other new collections. But there are exceptions in some cases where an NFT may be sold higher than the ceiling price of its collection.

5. FLOWCHART

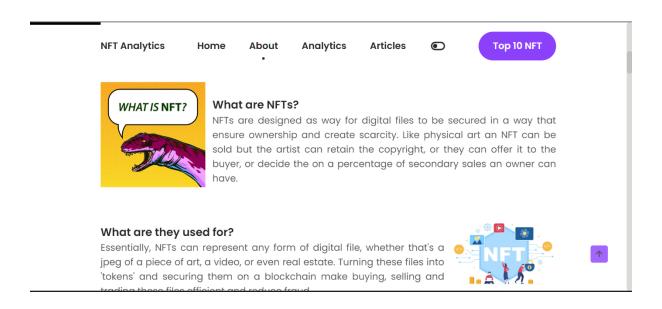


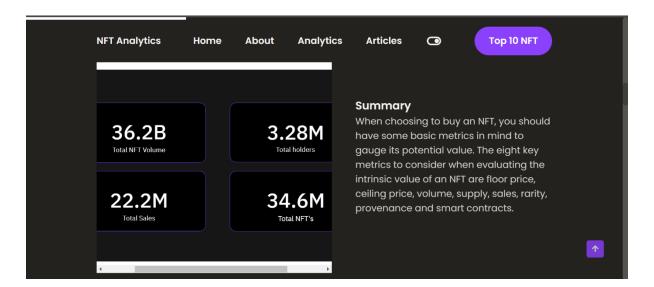
We have fetched the data from APIs and using a set of API tools we have transferred live data to Cognos for analysis. All the analysis is represented in the form of dashboards which will refresh every hour by fetching the API.

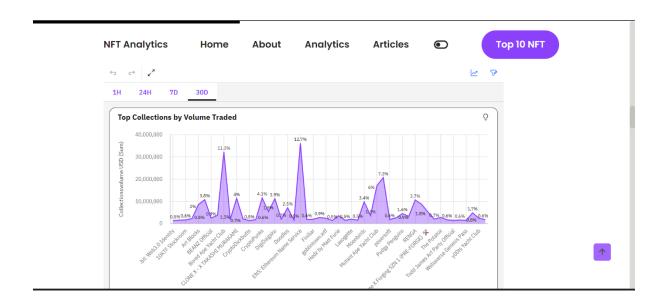
All these dashboards are present in the deployed webpage which can be accessed using only our IBM credentials.

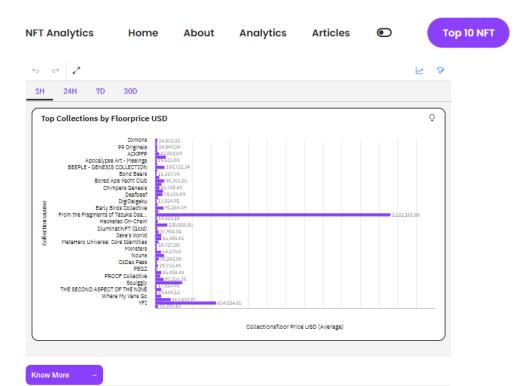
6. RESULT

As said in the experimental analysis, the price and demand of an NFT is highly linked to its collection. So, we have found out the top collections based on different factors like floor price, volume, Market cap etc.









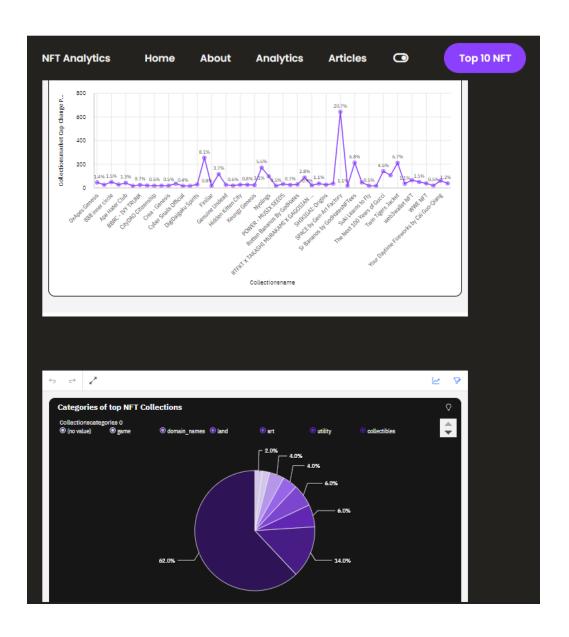
Floor Price

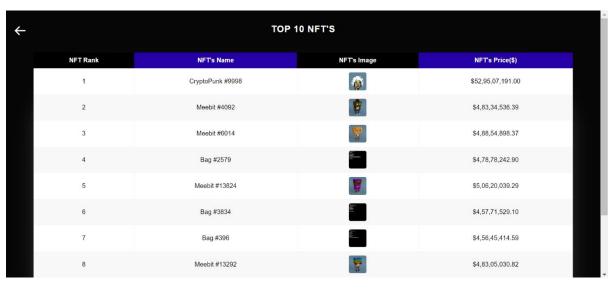
What is it?

In the NFT space, the floor price is the lowest-priced NFT within an NFT project. Buying the floor is considered a good starter strategy since it's an approachable entry point for new people joining an NFT project.

Why is it important?

The floor price is a good metric for evaluating how well an NFT project is being received by the community. As demand increases, the floor price will increase. So if you buy the cheapest NFT in a collection with the expectation that it will become more popular, you can then resell the NFT when the floor price is higher. A good goal is to find a project that balances high value and accessibility. Although projects with higher floor prices are worth more, they are more difficult for smaller traders to afford.





7. ADVANTAGES & DISADVANTAGES

Advantages

- An easy to use and understand user interface of the dashboard.
- All the dashboards present are real time and get updated every hour.
- Users are provided with explanations of graphs and basic overview of everything related to NFTs.

Disadvantages

- Due to uncertainty in prices of NFTs we have not predicted the prices of NFTs, but shown the most probable collections to invest in.
- We have focussed only on NFTs present in the Ethereum blockchain as it covers more than 70% of the NFT market.

8. APPLICATIONS

Any new user can easily learn about NFTs and see the analytics at one place. The graphs are clearly explained so that users can make decisions whether to buy NFTs from a specific NFT at present time or wait for the price to grow.

Business can use this analysis as a base for in depth analysis and try to improve their NFT services.

NFT creators could look at the most successful collections and research what factors are responsible for higher prices of NFTs.

9. CONCLUSION

This project focuses on the clarity provided to users rather than cluttered dashboards which can be overwhelming for any new user. The NFT analytics dashboard has many uses as mentioned in applications section. This is a necessary tool for anyone who is interested in cryptocurrency and NFTs.

10. FUTURE SCOPE

Due to the rapid rise in the blockchain market there is huge demand for cryptocurrencies and NFTs and we can see millions of dollars being invested. These may become a common investment strategy and new way of getting recognized for creators. As a result, the demand for NFT analytics will rise further in the future.

11. BIBILOGRAPHY

Research

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https://opensea.io/

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API and tools

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https://cryptoslam.io/products/api

https://apipheny.io/

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12. APPENDIX

Live website URL:

https://nft-dashboard.s3.ams03.cloud-object-storage.appdomain.cloud/index.html