



IBM HACK CHALLENGE 2022



FINAL PROJECT REPORT ON

NFT SALES ANALYTICS DASHBOARDS

By

TEAM DEBUGGERS

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1. INTRODUCTION

1.1 OVERVIEW

The project is about creating user interactive dashboards on NFT sales by using different types of analytical tools (COGNOS ANALYTICS). The main agenda of this project is to grab insights from the dashboards presented so that a user can understand how the sales of NFT's are, which type of NFT band is better to buy etc. Data is collected from different resources and used those data for creating dashboards using analytical tools and a website is created (hosted with STREAMLIT) so that user can interact with these dashboards effectively.

1.2 PURPOSE

As the market value for NFTs is not constant, users are unable to predict the value of NFTs of different bands. In order to remove these confusions, data from different resources is collected and analyzed using different analytical tools and user interactive dashboards are created so that user can grab insights about the behaviour of different types of NFTs of different bands.

2. LITERATURE SURVEY

2.1 EXISTING PROBLEM

Due to fluctuations of values of NFTs in the market, a buyer can't able to understand the best NFT to buy or a seller is not able to understand which type of band of NFT is better to make and to sell. Many of the buyers are investing in NFTs without prior analysis and going into losses.

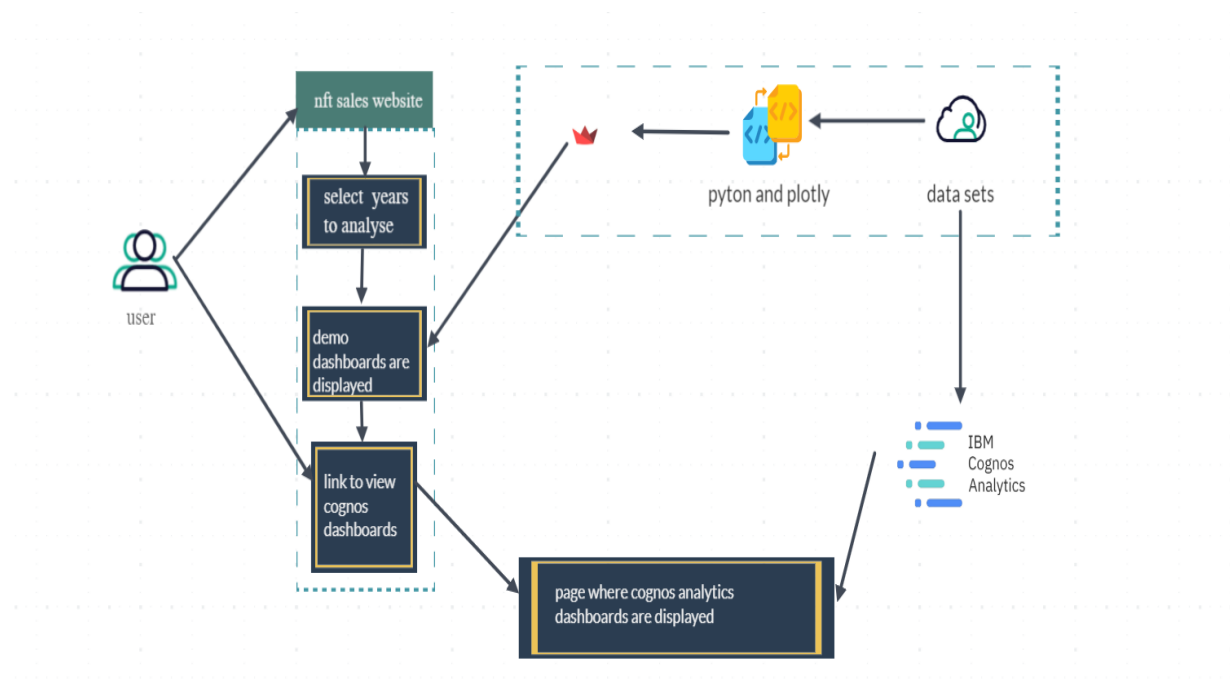
There are many ways to analyse the sales of NFTs. One can go through the data available sales of a particular type of NFT from the past years. But there is a problem in analysing all types of NFTs at a time and to compare NFTs to know which one is more profitable.

2.2 PROPOSED SOLUTION

Our solution is to make interactive dashboards about the sales of NFTs. Data is collected from different resources about the sales of NFTs from the past 5 years. Collected data is analysed and made different types of interactive dashboards by using business intelligence tools (COGNOS ANALYTICS). These developed dashboards are embedded in a website so that user can have some demo dashboards and a link is provided to redirect to a page where dashboards are displayed through which user can grab insights.

3. THEORITICAL ANALYSIS

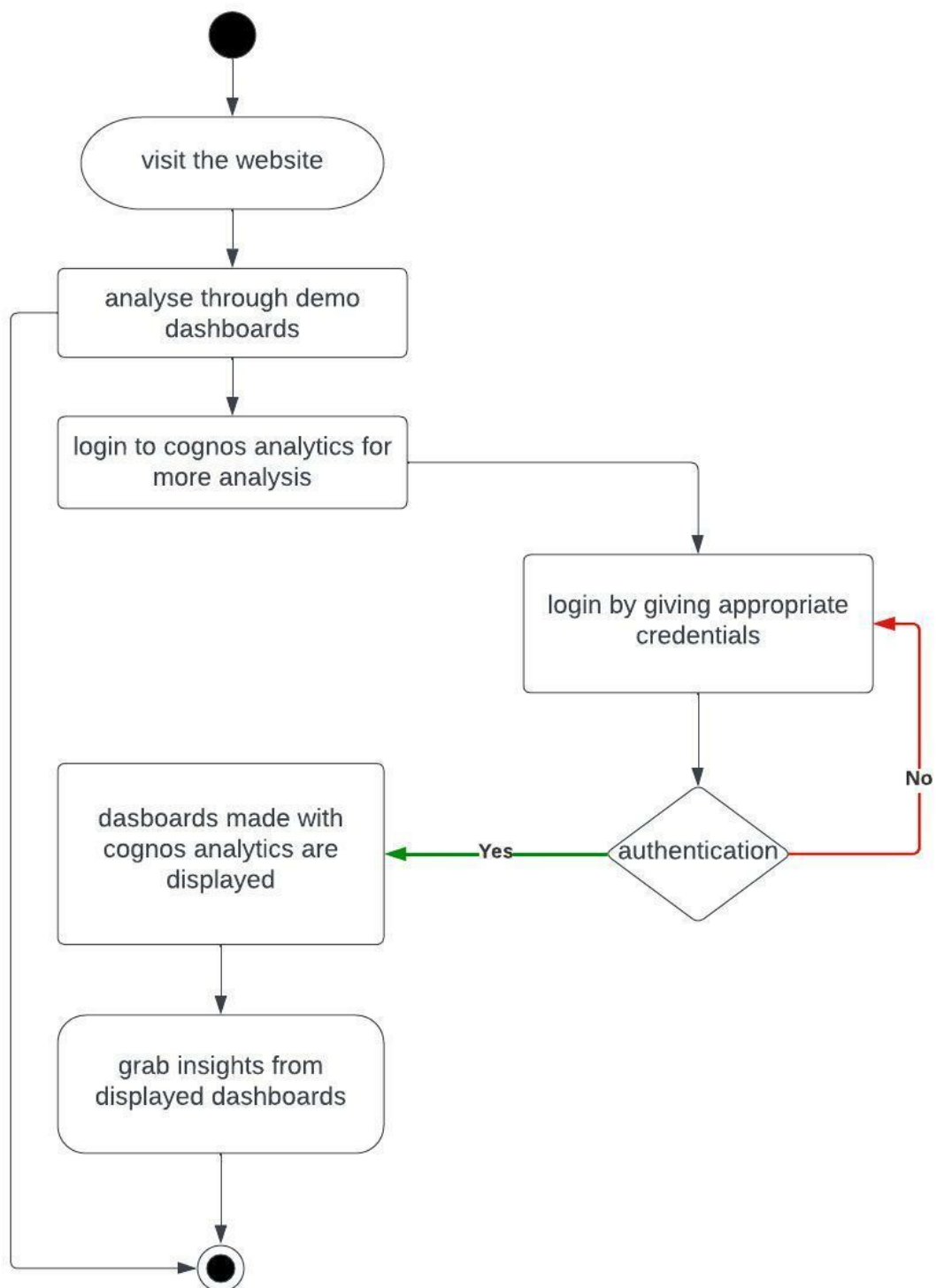
3.1 Block diagram



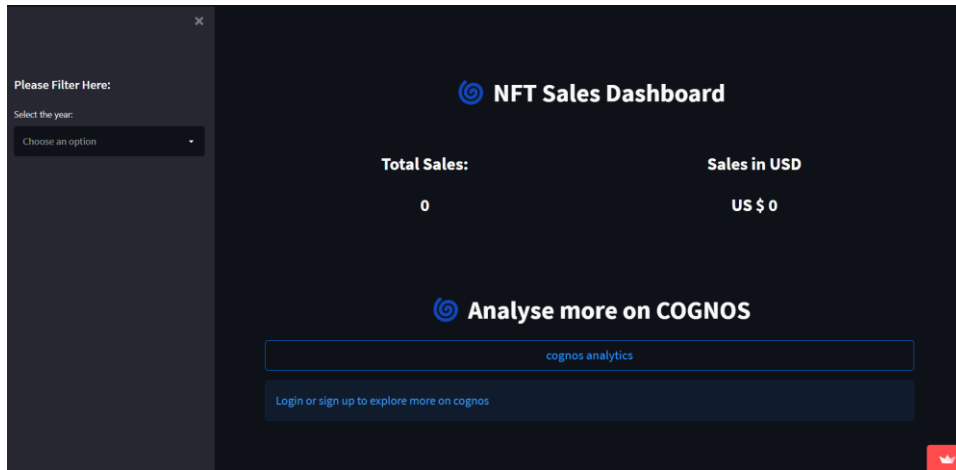
3.2 SOFTWARE REQUIREMENTS

- Updated streamlit server to host the website
- Datasets to analyse
- Python libraries to plot graphs(plotly)
- Cognos analytics account to create dashboards

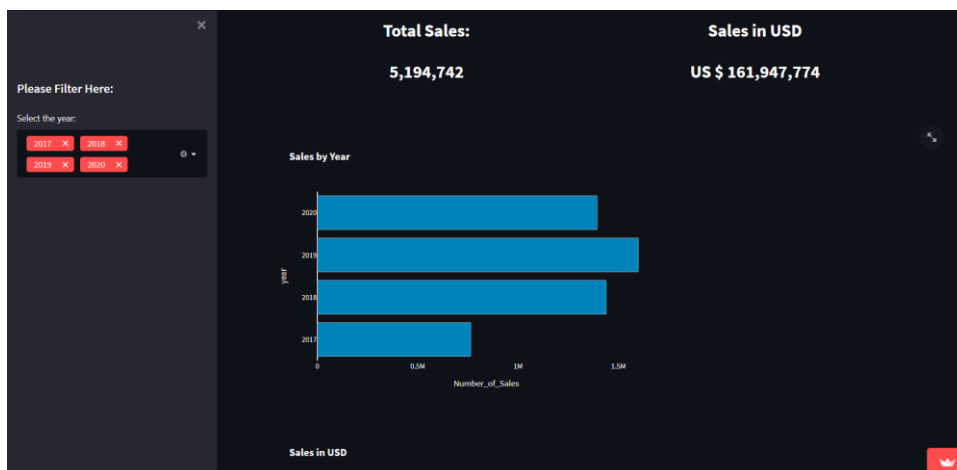
4.FLOW CHART



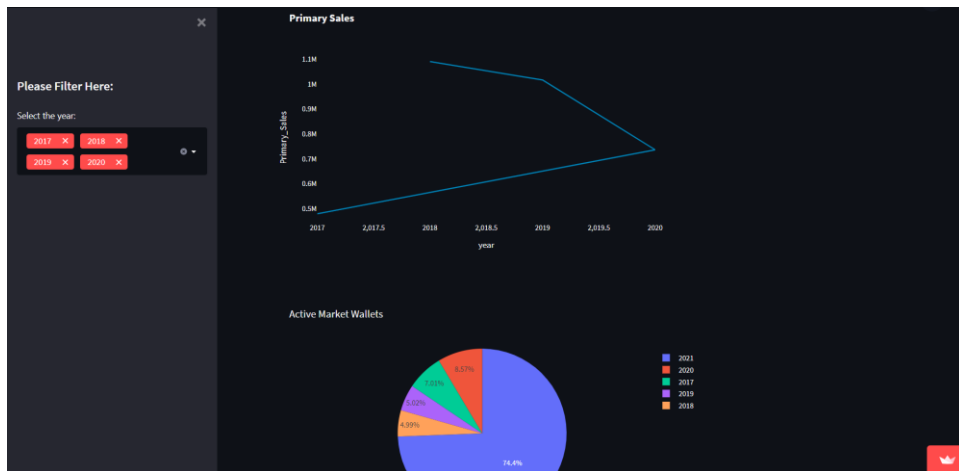
5. RESULT



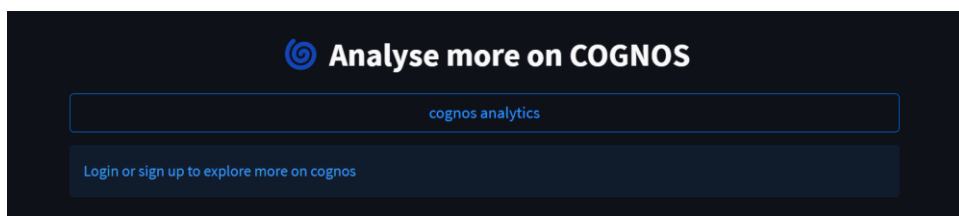
HOME PAGE



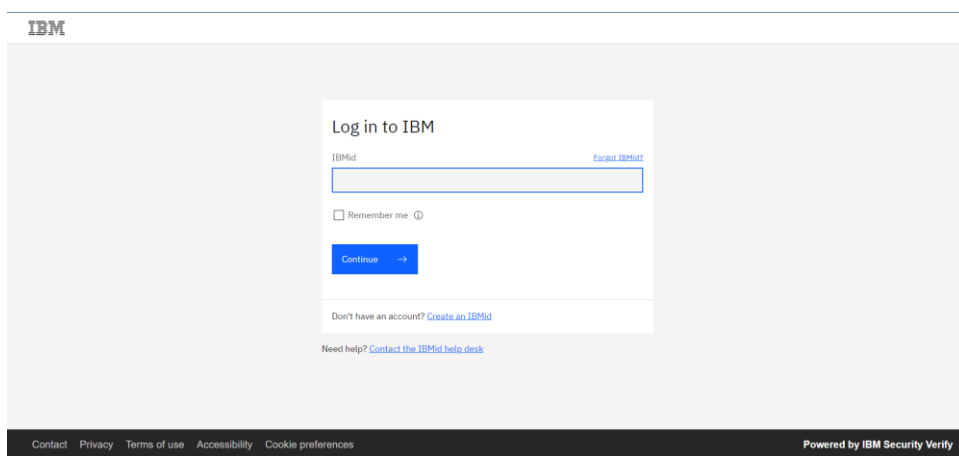
DISPLAYING SALES BY YEAR BY SELECTING MULTIPLE YEARS



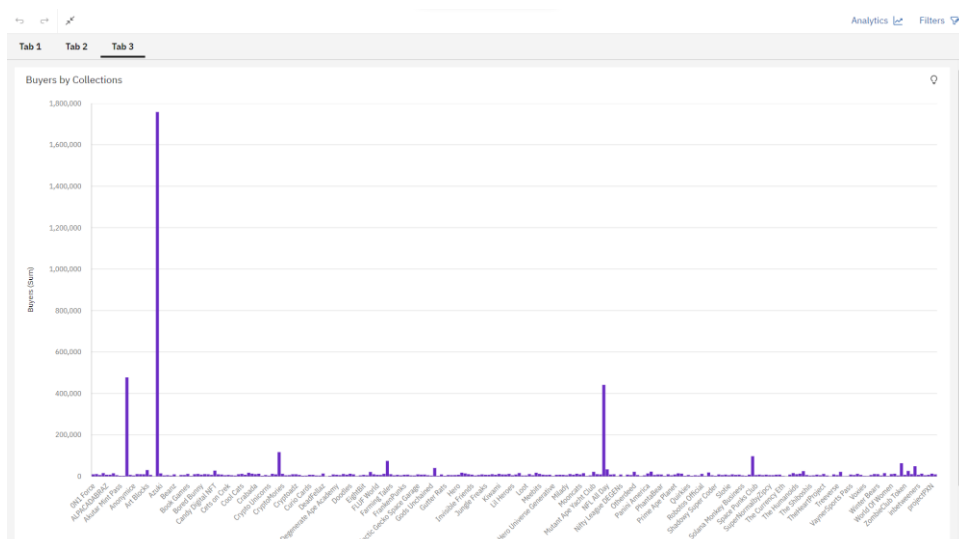
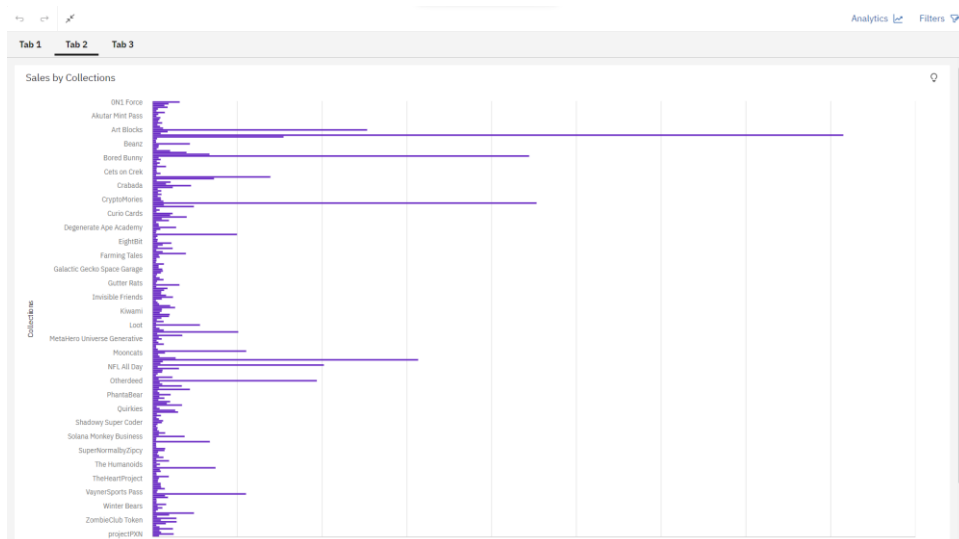
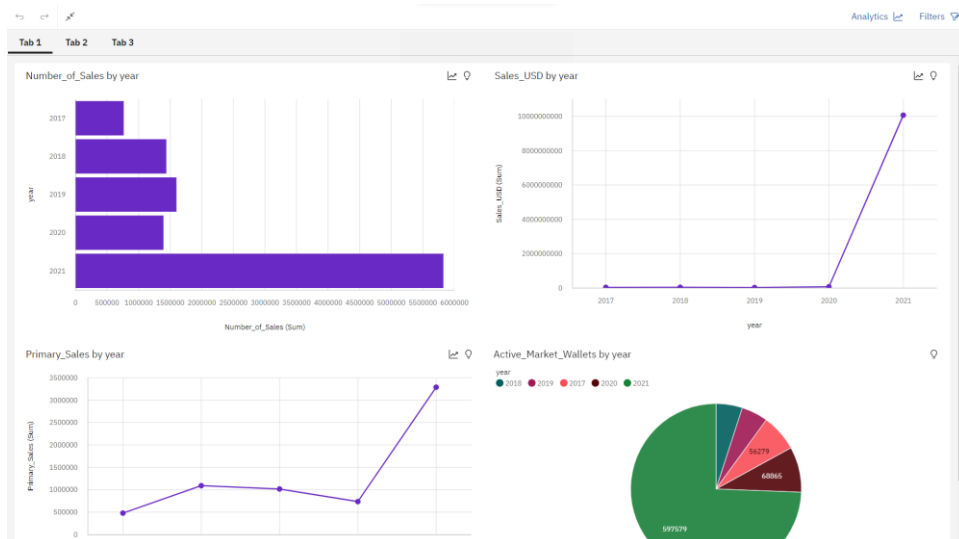
DISPALYING DIFFERENT TYPES OF ANALYSIS



LINK TO REDIRECT TO COGNOS ANALYTICS



PAGE TO REDIRECTION TO SIGN IN



DISPLAYING DIFFERENT DASHBOARDS MADE ON COGNOS

6. ADVANTAGES:

- Easy to analyze the behavior of NFT market
- Different types of data available at one place
- Analysis can be made with one click
- Removes the ambiguity
- Less time taking
- Greater insights with 99% accuracy
- Easy to understand the behavior of different bands of NFT
- Easy to make decisions on the investments

7. APPLICATIONS

This website can be used in many ways

- To understand the sales of all NFTs over 5 years
- To make decisions on buying and selling NFTs
- To analyze which type of band is more benefitable to buy
- To remove the ambiguity about the performance of NFT

8. CONCLUSION

This project is all about analyzing the sales of the different types of NFTs by using data from the different resources. The collected data is analyzed using different analytical tools (COGNOS ANALYTICS) and many users interactive dashboards developed so that both sellers and buyers can get the information about NFTs of different bands and can make profits.

9. FUTURE SCOPE

Every there is a lot of transactions will be done in the NFT market and the data is not constant. Analysis must be made every year to understand the behavior of the NFTs. So simply by uploading the data generated every year, automatically dashboards are displayed according to the data. There is no need of reconstructing the entire dashboards again and again in the future.

10. BIBILOGRAPHY

DATASET RESOURCES

<https://www.kaggle.com/datasets/mathurinache/opensea-collections>

11. APPENDIX

11.1 SOURCE CODE

<https://github.com/Keshava369/nftsales.git>

<https://github.com/Keshava369/abcd.git>

Website link - <https://keshava369-nftsales-xy-ukmx17.streamlitapp.com/>