**Project 3 {Insert name of group}**

**Financial Web Description**

**https://portal.thirdweb.com/pre-built-contracts/edition-drop**

[**Edition Drop | thirdweb developer portal**](https://portal.thirdweb.com/pre-built-contracts/edition-drop)

**Dashboard**

**Use ARIMA and Neural Network or Prophet**

**ARIMA in one tab**

**Prophet in seperate tab**

**COMBINED ARIMA and Prophet tab with comparisons.**

**Do not Repeat code - one dropbox not multiple**

Create a dropbox that allows you to pick the asset for the models

Pandas\_datareader

Asset class : Dow 30 Stocks

Csv file of ticker titles

Api pulls the ticker - Pandas\_datareader - yfinance

Output will be the forecast

Visualization - prophet model - upper and lower yhats -

Ohlc with keltner bollinger band or ma cross over

Goal is to forecast the Daily closing price.

Dashboard purpose - used for day traders to have on demand analytics for forecasting.

Database - collect users activity. What is the user calling for.

Purpose is to further develop to see what the user is most interested in

captures

Users identification from their nft

Time stamp / date

Their selection

Sql alchemy

Secure access using NFT

* Make the NFT non transferable
* Token on the ETH chain - used to buy the nft
* Without NFT you dont have access to the content
* ETH is used through the cloud (eliminates the use for a password)

Good for a lifetime pass but can limit it to seasonality

Streamlit

Membership access tab - if condition to run a check on metamask for NFT collection

**Potentially** - Authenticate access through metamask

Streamlit Cloud is the end use

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Technologies used:

Streamlit (Dashboard) Dark Mode

Streamlit Cloud (Deploy)

Pandas (Dataframes)

blockchain / NFT

3rd web - prebuilt contracts

Solidity (maybe)

SQL - pgadmin / sqlalchemy

**Outline**

*Start in ipynb file*

Gather data source

Initiate the dataframes to be used for models

Visualizations

Prophet model

ARIMA

Neural Network

Move ipynb file to .py for dashboard

Streamlit - dark mode

Customized layout

NFT