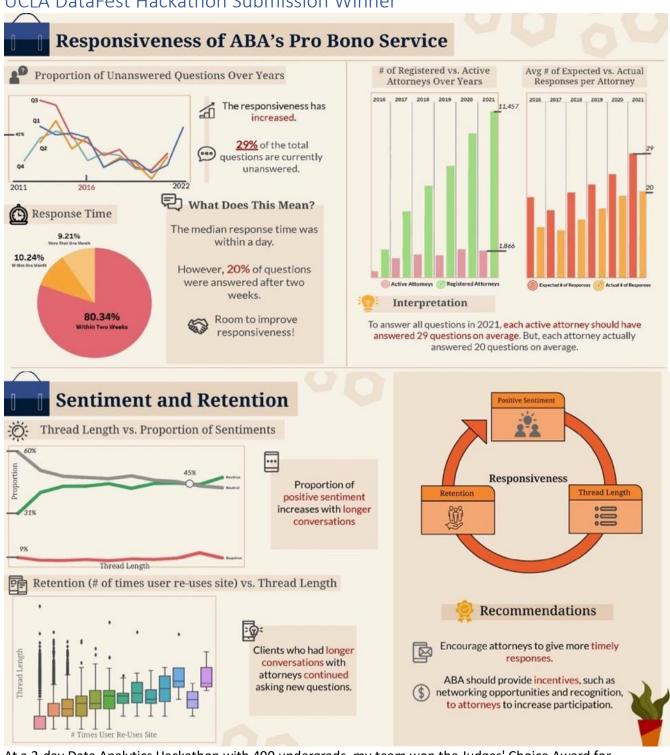
## **Table of Contents**

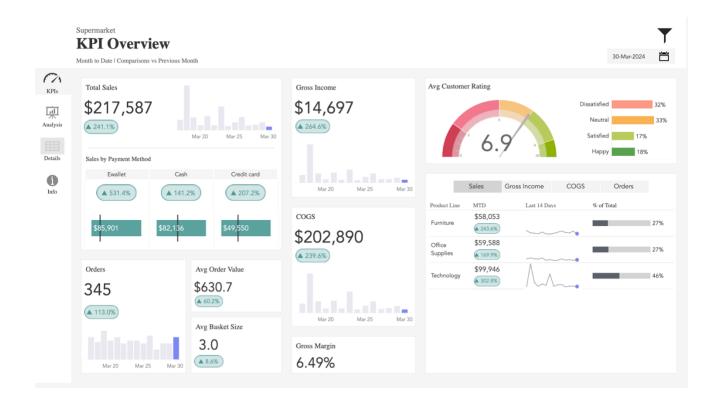
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#### UCLA DataFest Hackathon Submission Winner

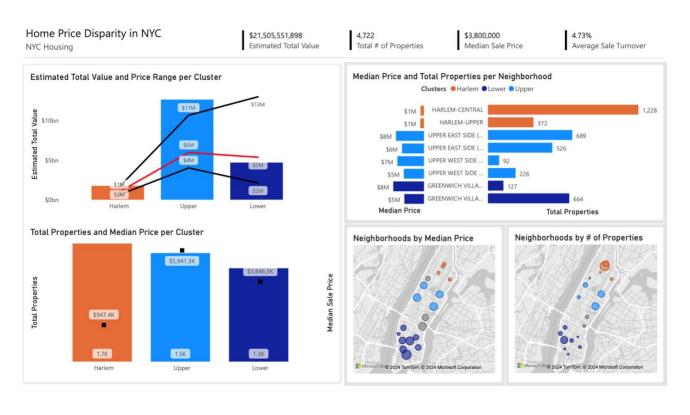


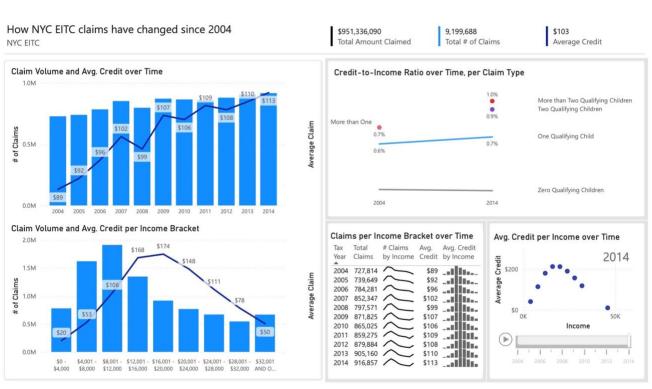
At a 2-day Data Analytics Hackathon with 400 undergrads, my team won the Judges' Choice Award for humanizing data. Our project focused on analyzing attorney responsiveness and client retention rates within the American Bar Association's (ABA) Pro Bono Service, which offers free legal counseling. Utilizing state-of-the-art BERT, we conducted sentiment analysis and discovered a correlation between clients' positive sentiments, longer conversations, and higher retention rates.

## Tableau Shopify Dashboard



### Power BI stories based on NYC real estate and tax claims

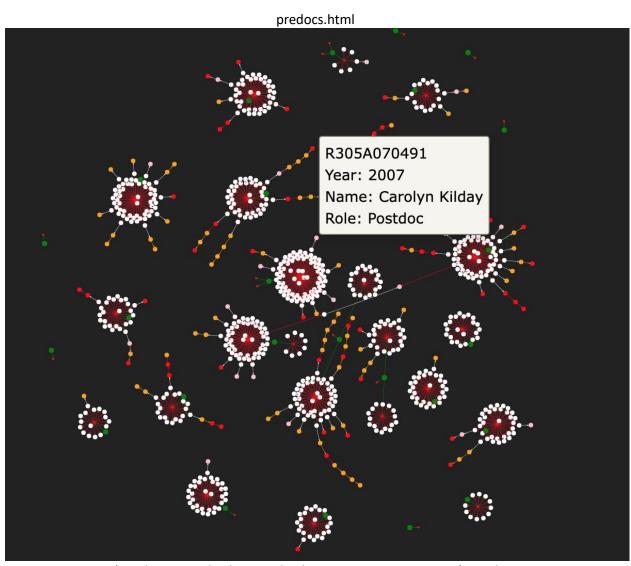




## Network Analysis of Individual Careers and Training Grants

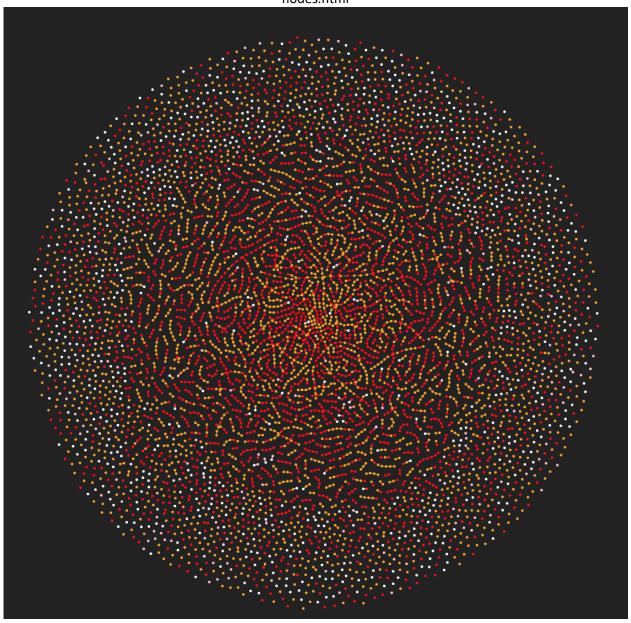
#### Task

"In terms of the network analysis, I wonder if there is a way to scrape/pull data from our abstracts to tell a story about how IES has built a community of scholars in the education sciences...I'd love to be able to know all the instances of pre- and post-doctoral fellows who have continued to participate in IES projects as key personnel, co-Pls, or Pls and to understand the sequencing and timing of those fellows and which programs they were initially trained in."



\*predoc network where each white ring is a training grant's predocs

## nodes.html



\*all individual timelines visualized per line

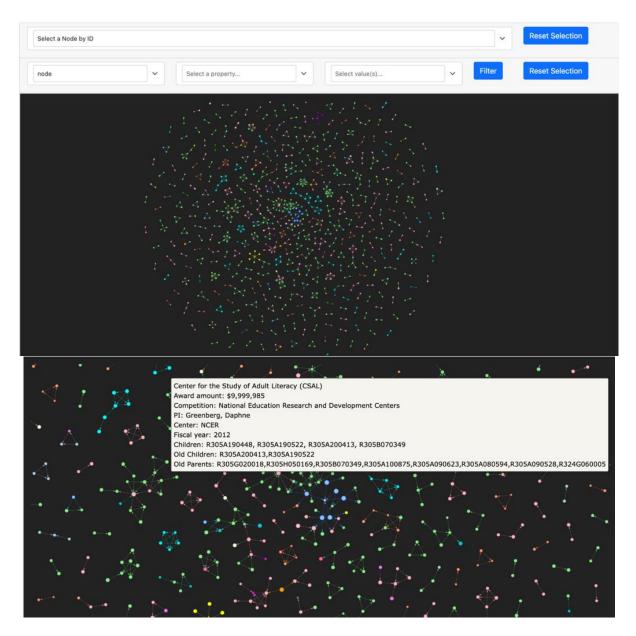
## Award Spreadsheet Lookup + Network

#### **Issue:**

IES staff need to determine which projects are related to one another, but the existing raw data is incomplete. Parent-Child relations are not always captured. Due to this, the related families are incorrect and incoherent within the grant search system.

Award	R305A110143
IES.ID	1139
Fund type	Grant
Center name	NCER
Fiscal year	2011
Program Officer-COR	Elizabeth Albro
Award number	R305A110143
Title	A Toolkit for Identifying and Assessing Socially Rejected Children
Award amount	\$2,325,731.00
Supplemental funding	0
OrigAward+Suppleme	2325731
Principal investigator	McKown, Clark
Grantee institution/co	Rush University Medical Center
Grantee institution/co	IL
Grant search link	http://ies.ed.gov/funding/grantsearch/details.asp?ID=1139
Competition	Education Research
Topic/Strand	Social and Behavioral Context for Academic Learning
Project Type/Goal	Measurement;#9
Disability area	_Not applicable;#30
Related	Extension or predecessor of another IES-funded project
Related children	R305A160053;#2253
Related parent(s)	
Modifications and acti	
Updates and changes	0
Award period in mont	48
tem Type	false
Path	Closed
Child Check	91990022C0040, R305A200220, R305A160053
Parent Check	
Child Final	91990022C0040, R305A160053, R305A200220
Parent Final	
Co-Parent	91990021C0028, R305A150189, R305A160053, R305A200463
R1 (Related)	91990021C0028,91990022C0040,R305A150189,R305A160053,R305A200220,R305A200463
R2	91990021C0028,91990022C0040,R305A110143,R305A150189,R305A160053,R305A200220,R305A200463
R3	91990021C0028,91990022C0040,R305A110143,R305A150189,R305A160053,R305A200220,R305A200463
R4	91990021C0028,91990022C0040,R305A110143,R305A150189,R305A160053,R305A200220,R305A200463

Elevated data quality by cleaning the incomplete input for the recorded children and parent awards, allowing for a lookup tool to be built.



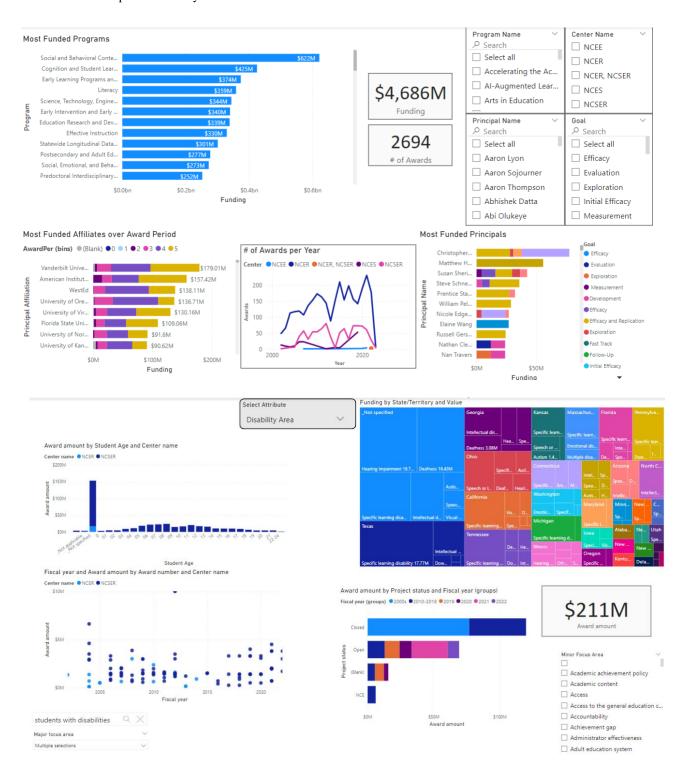
I created a visualization to present the award connections, so IES staff can easily see relationships and related awards to improve the ability to find similar awards and build off their findings in research as well as see how awards have sprouted from each other throughout time.

### Award BI Dashboard

\*some information missing due to PII

#### **Issue:**

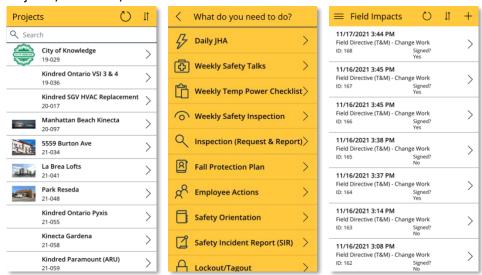
IES staff need to be able to identify grants and contracts that have similar research foci or that share other features that IES staff need to report on or analyze.



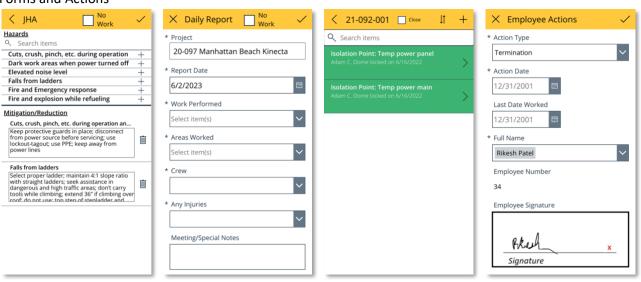
## Field App

Screenshots of the field app I independently developed over the summer for safety forms, material requests, employee actions, and document viewing for 50+ employees.

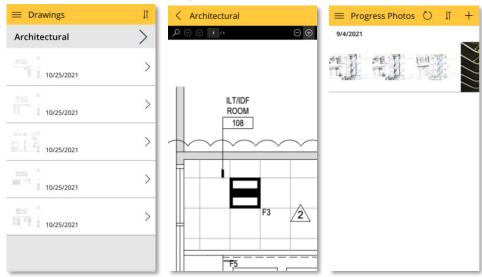
#### Projects / Modules / Submissions



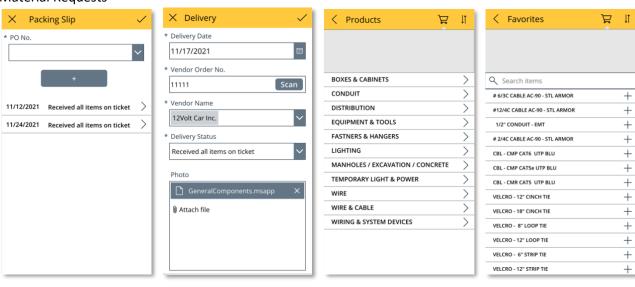
#### Forms and Actions



#### **Document Viewer and Photo Upload**

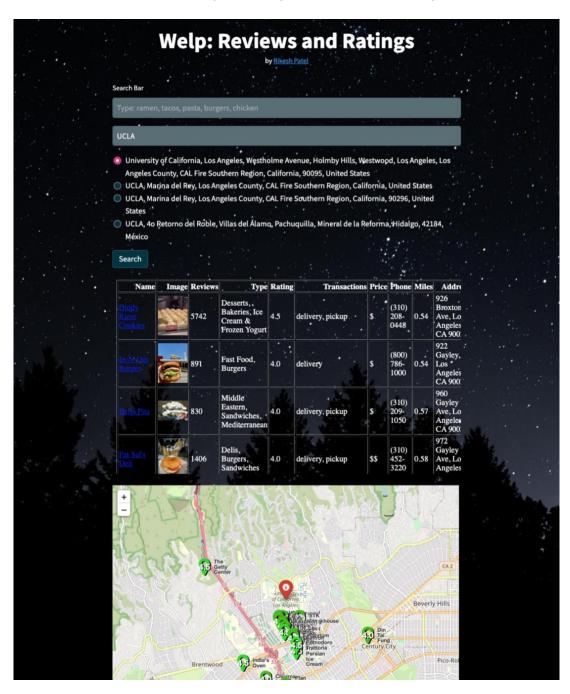


#### **Material Requests**



## Search, Review, and Explore Restaurants (Website)

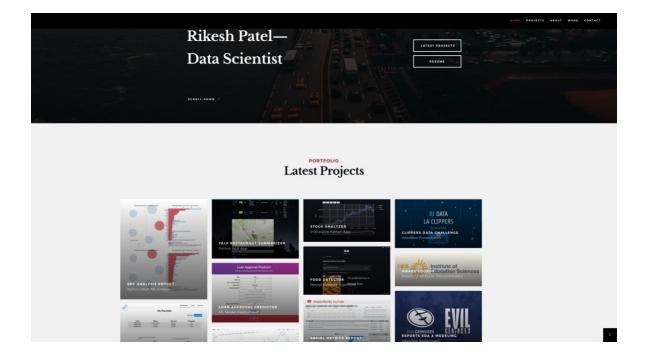
I was touring Greece and Rome and found that it was difficult for me to use Yelp to find nice places to eat. In frustration, I decided to create my own website to take advantage of reviews online as well as other data and piece it together to find the most suitable place to eat based on my query. I expanded this concept by implement NLP models, sentiment analysis, and adjective visualization to improve the user interaction.



#### Portfolio Website

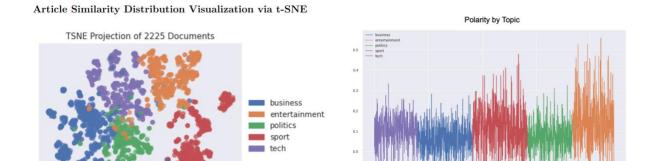
Filled with anticipation and eagerness, I embarked on the creation of my very own personal website - a project I had been yearning to undertake for quite some time. Finally, the opportunity had presented itself, and I threw myself into the task with gusto, determined to bring my unique vision to life.

To do this, I used HTML, CSS, and JavaScript to set everything up. One of the most difficult features to implement was the changing backgrounds upon page refresh, but I persevered to get it to work, adamant on publishing the website only after I figured out how to set up this ostensibly trivial feature. It took much patience, but I finally found a solution. Then, I added mobile support for different screen resolutions and a contact screen page to accompany my resume.

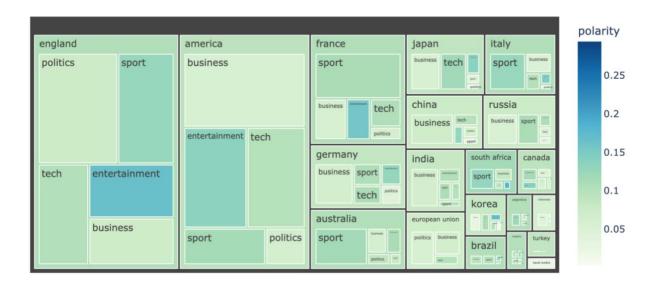


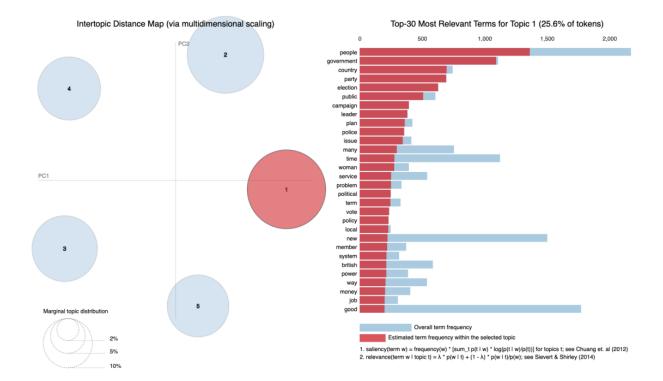
### **BBC News NLP Report**

In this report based 2k BBC news articles, I answer a few questions, analyze country name dropping, look at sentiment and polarity, classify articles into topics, and more.



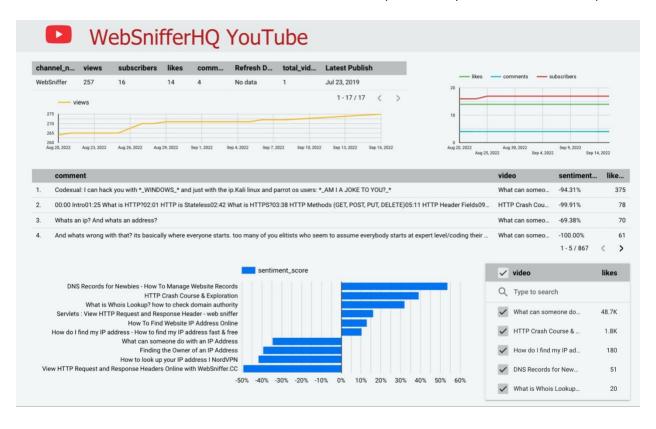
6 Treemap Distribution of Most Mentioned G20 Countries by Topic





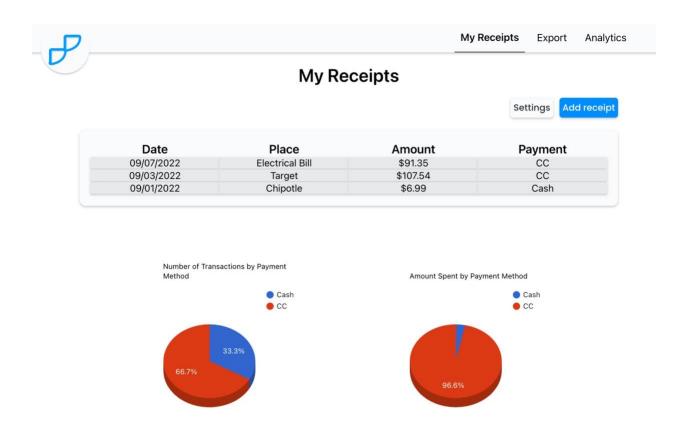
## Socials Dashboard (Google Data Studio)

I was elected to be the Data Analytics Team Lead during my WebSniffer internship. I provided guidance to my team members while communicating with upper management. I helped my team by offering technical expertise and advice on data analysis, and I also worked with the team to identify and resolve any obstacles that arose. One of the key methods I helped the team achieve its goals was by providing clear communication: I ensured that everyone on the team understood their roles and responsibilities by working closely with the team to ensure that everyone had the resources they needed to be successful. Overall, my experience as a team lead taught me the value of collaboration and problem-solving in achieving team goals; I believe that these skills are essential for success in any team environment, and I am confident I can contribute these pillars to any future team I am accepted into.



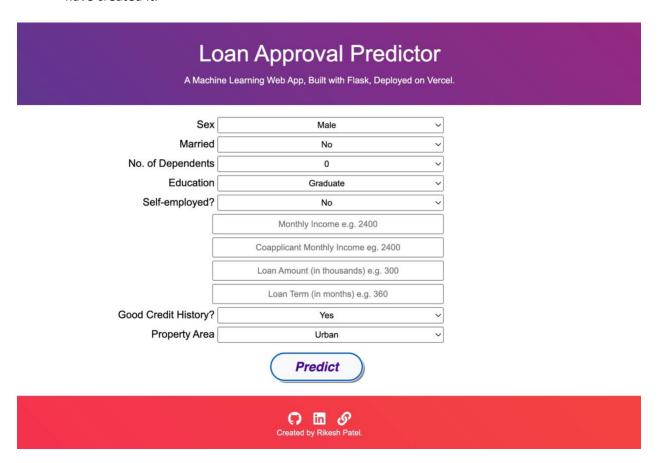
### Receipt OCR Website

Receipts are a transcript of all of our expenses, but many people choose to throw them anyway. I wanted to repurpose this nuisance of paper into useful statistical measurement of cost management. By creating a simple app to read receipts and transform their numbers into a report, I accomplished my initiative to add utility to something that has few immediate benefits.



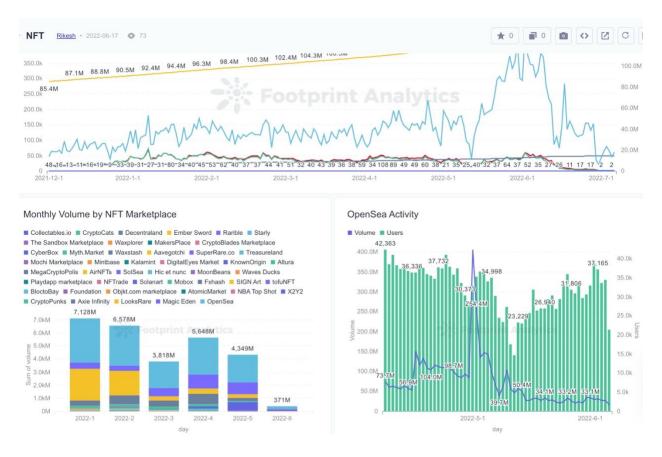
## Loan Predictor App

I created a simple framework to host my machine learning classification model. I thought that the finished product was a interesting display of the capabilities of machine learning, so I am happy to have created it.

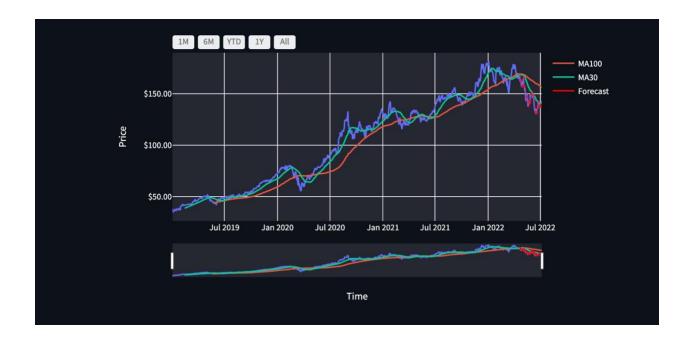


## NFT Market Analysis

While researching cryptocurrencies during my internship with Fayble Inc., I decided to create a dashboard on my own time to capture the state of the market. We had weekly presentations, and I thought this dashboard would serve well in tying my conclusions together, especially as a showcase of the market to my clients in the audience.



# Stock Analyzer



## Food Image Recognition

I needed to track my caloric intake and nutritional gain for my Nutrition class, and I thought of the perfect solution: Neural networks! I used a set of 100 common food images to train my model and built a Streamlit app to be its framework.

