# appfolio

# Siby

#### A Machine Learning Driven Dashboard for Property Managers

**Try Pitch** 

## **Team Excelsior**



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#### **Special Thanks to Our Mentors!**

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## Problem

Property Managers are overwhelmed with large volumes of accounting related data Property managers require an intuitive medium to understand and infer data trends



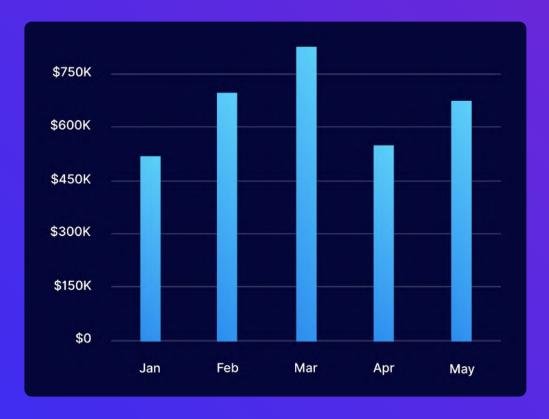
5.94,66755.39,0, 59.12,42826.99,0,0,0. 35.64,50656.8,0,0,0,0 115.94,67905.07,0,0,0 115.94,66938.9,0, 192.49,86421.04

Property Managers may lack the technical knowledge to extract financial projections from their data



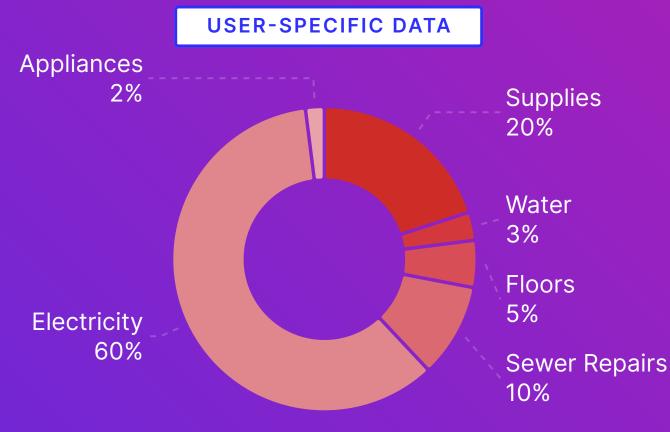
## Solution

#### A dashboard to interactively visualize predictive insights and forecasts

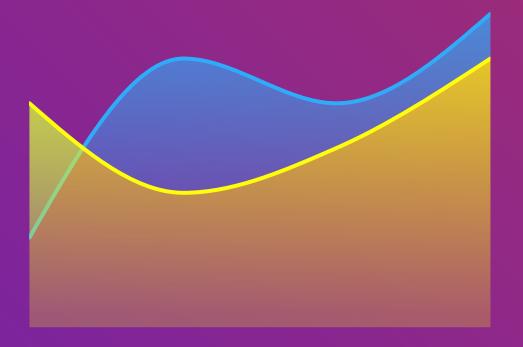




Easily and clearly see future projections for accounting specific categories Models are trained using user-specific property management data to ensure accurate predictions

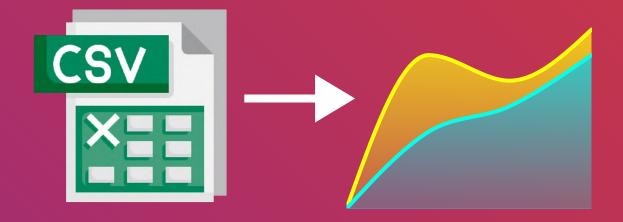


## Functionality



Select new data set
Electricity
Water
Gas
Flooring
Sewer Repairs

Key metrics and real time model projections can be viewed via graphs Filter and search features to define scope of data for category-specific expenses



Property Managers can input their own historical data and visualize it as a graph on their dashboard

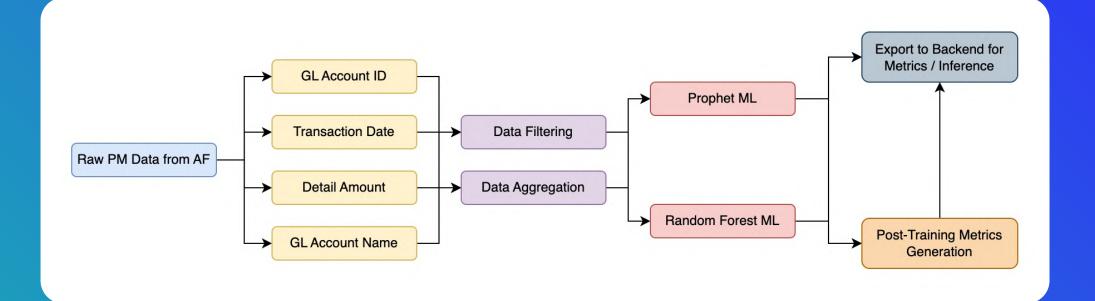


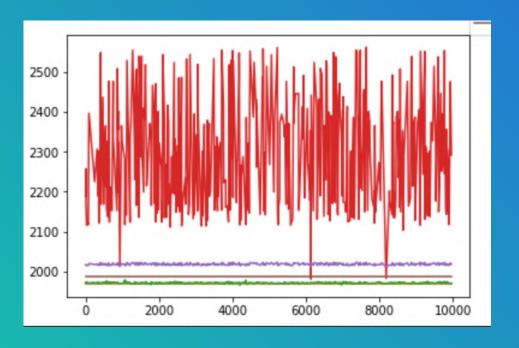






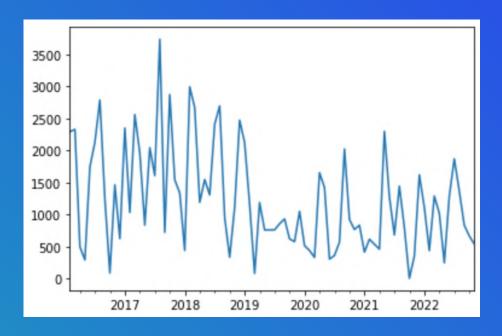






PR

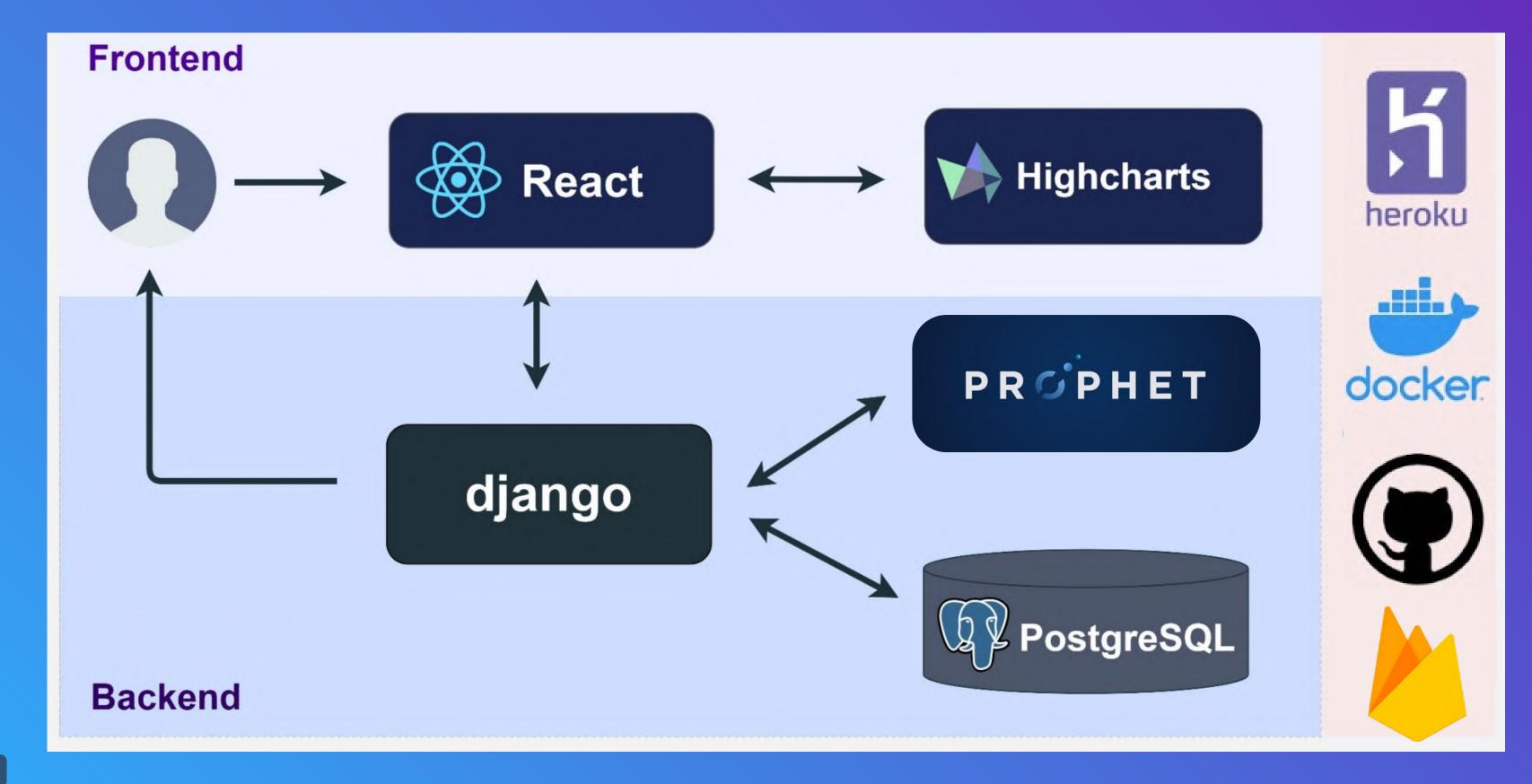
#### **NRMSE = 0.24**



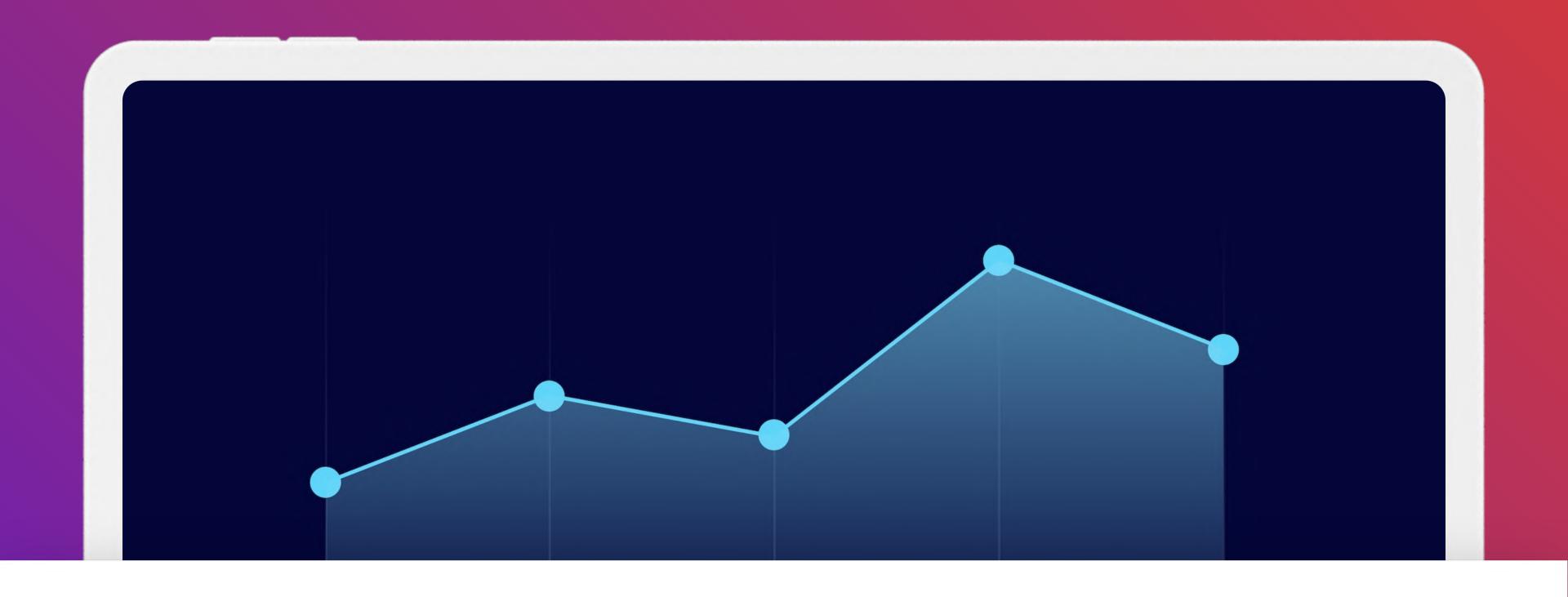
#### **Random Forest**

#### **NRMSE = 0.26**

## Architecture



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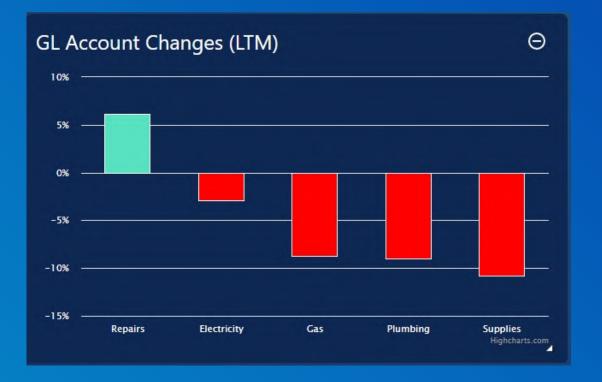
# Demo

## Impact

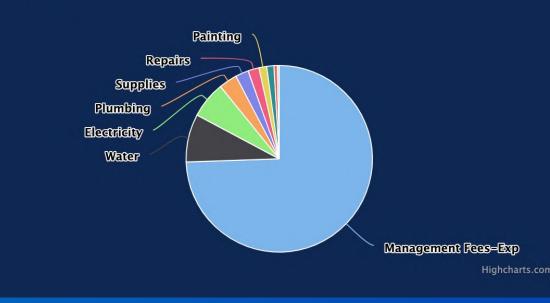
#### Visualize History

#### Insights of the Present

Θ



#### Cost Breakdown



Clearly see the historical trends of your data with no data science knowledge needed Undersand your properties' financial health with industrystandard key metrics





Provide complex and thorough model inference on your category-specific expenses

#### Conclusion

\$750K

## Sibyl: **Providing Machine Learning for Property Managers**

\$450K

\$300K

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