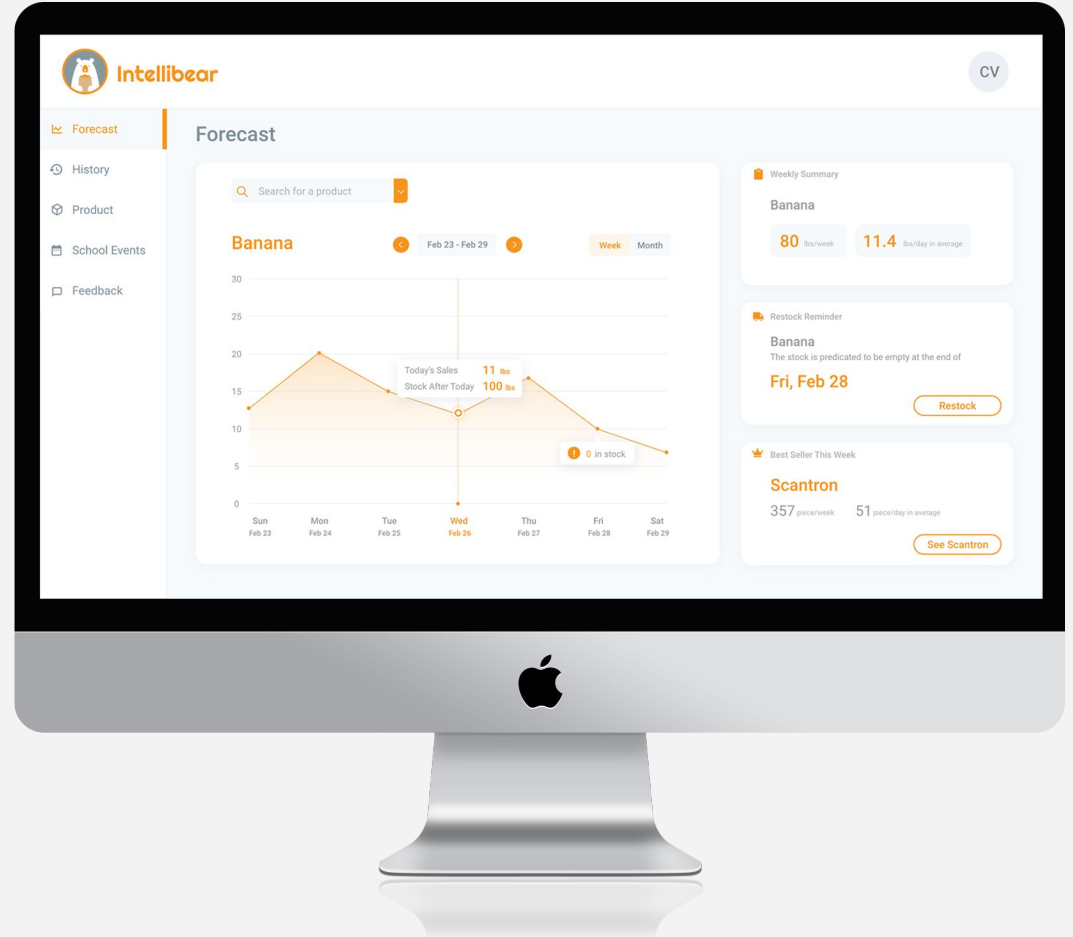




Intellibear

A solution for demand forecasting and
maximize profit for campus market



The story began with bananas...

THE PROBLEM



THE PROBLEM



Huge On-campus Food Waste!

22M lbs

food waste in U.S. colleges each year

THE SOLUTION



01

Deeper understanding
about single product
demand



02

Better decisions when
purchasing



03

Decrease inventory waste
Maximize Profits

PRODUCT DETAILS

01

Technical Perspective:

Demand Forecasting
Algorithm

02

User's Perspective:

Dashboard Interface Design

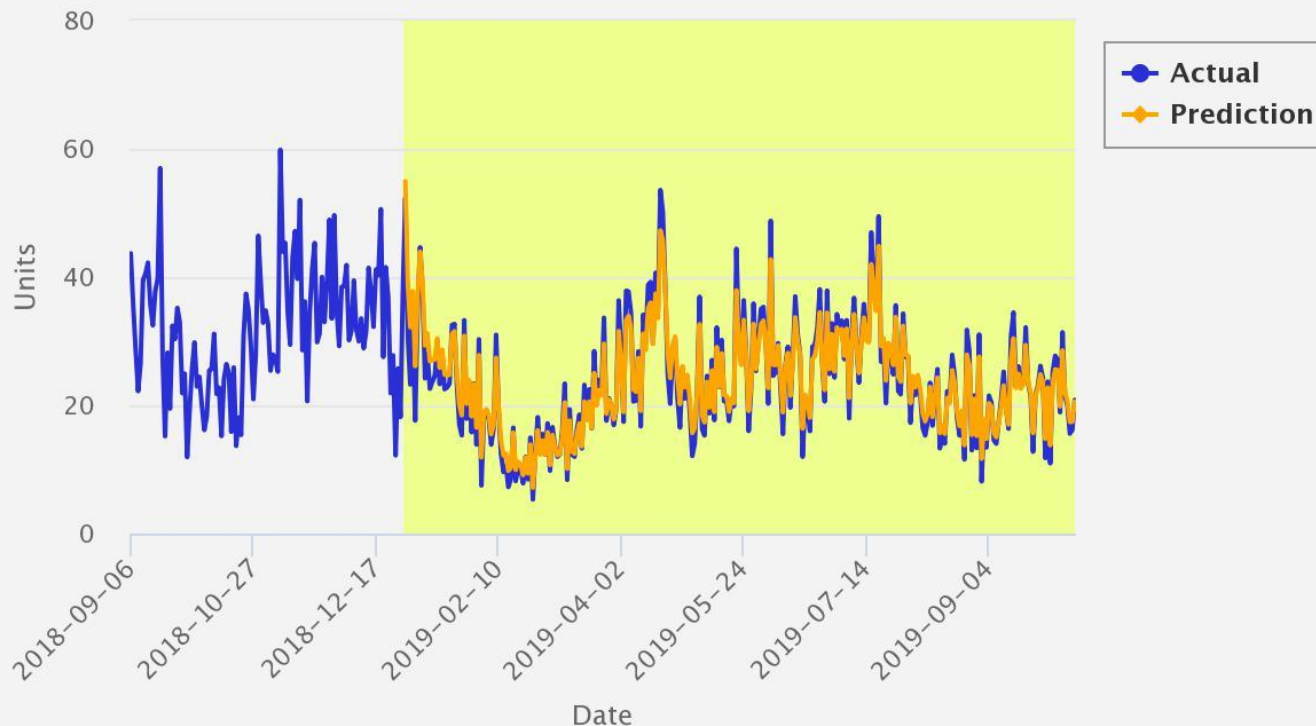
Demand Forecasting Algorithm

RMSE:

2

Bananas Prediction

Prediction of units of bananas sold per day using LSTM.



Data Source: <https://www.kaggle.com/luckysan/retail-grocery-store-sales-data-from-20162019>



Forecast

History

Product

School Events

Feedback

Forecast

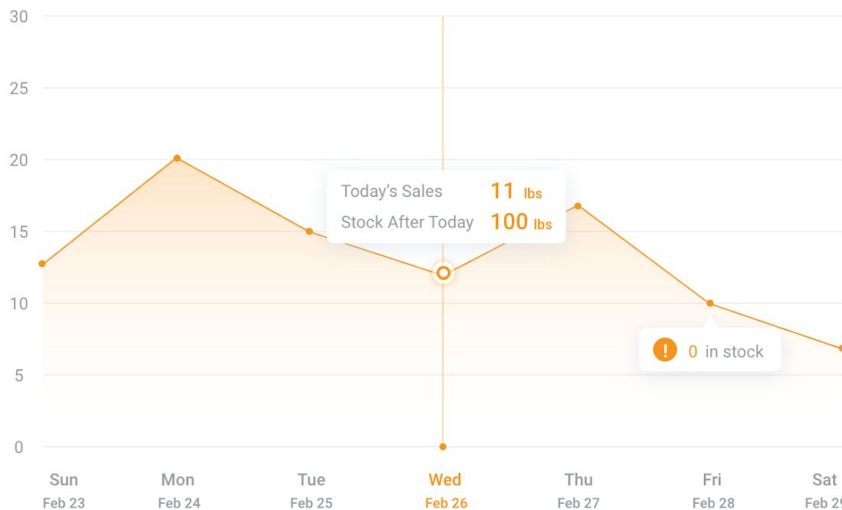
Search for a product

Banana

Feb 23 - Feb 29

Week

Month



Weekly Summary

Banana

80 lbs/week

11.4 lbs/day in average

Restock Reminder

Banana

The stock is predicted to be empty at the end of

Fri, Feb 28

Restock

Best Seller This Week

Scantron

357 piece/week

51 piece/day in average

See Scantron

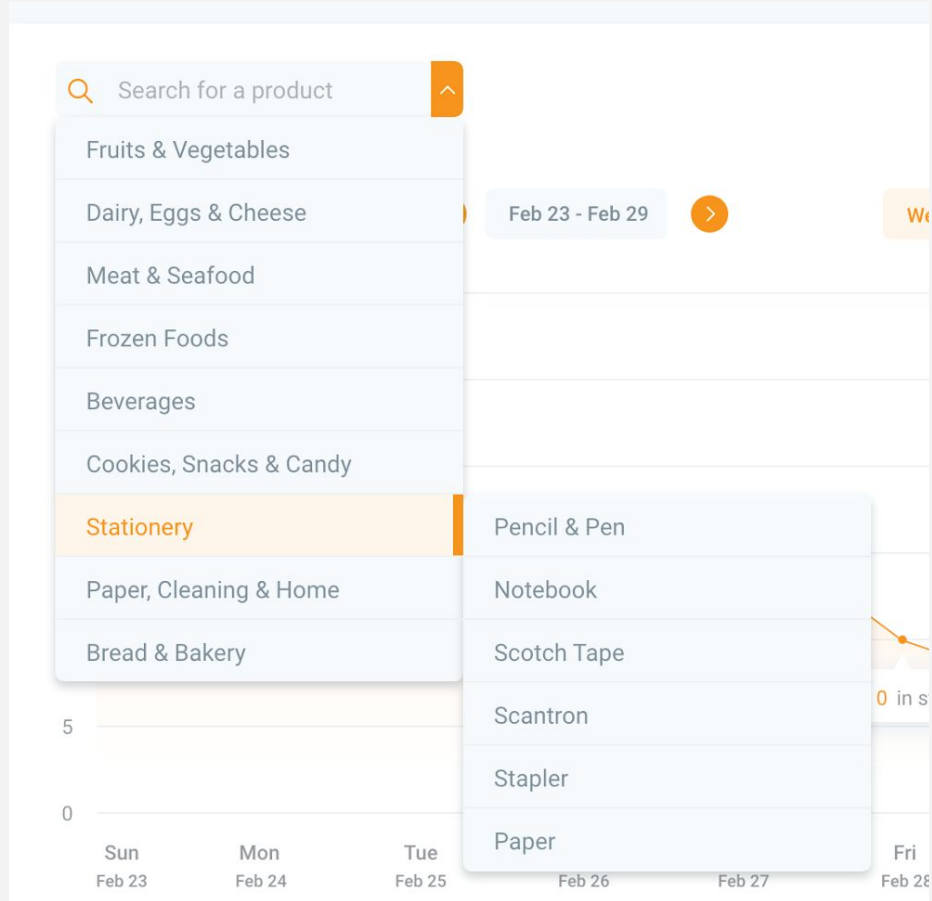
Feature Highlight

Item selection

Sales forecast

Restock Recommendation

Sales Visualization



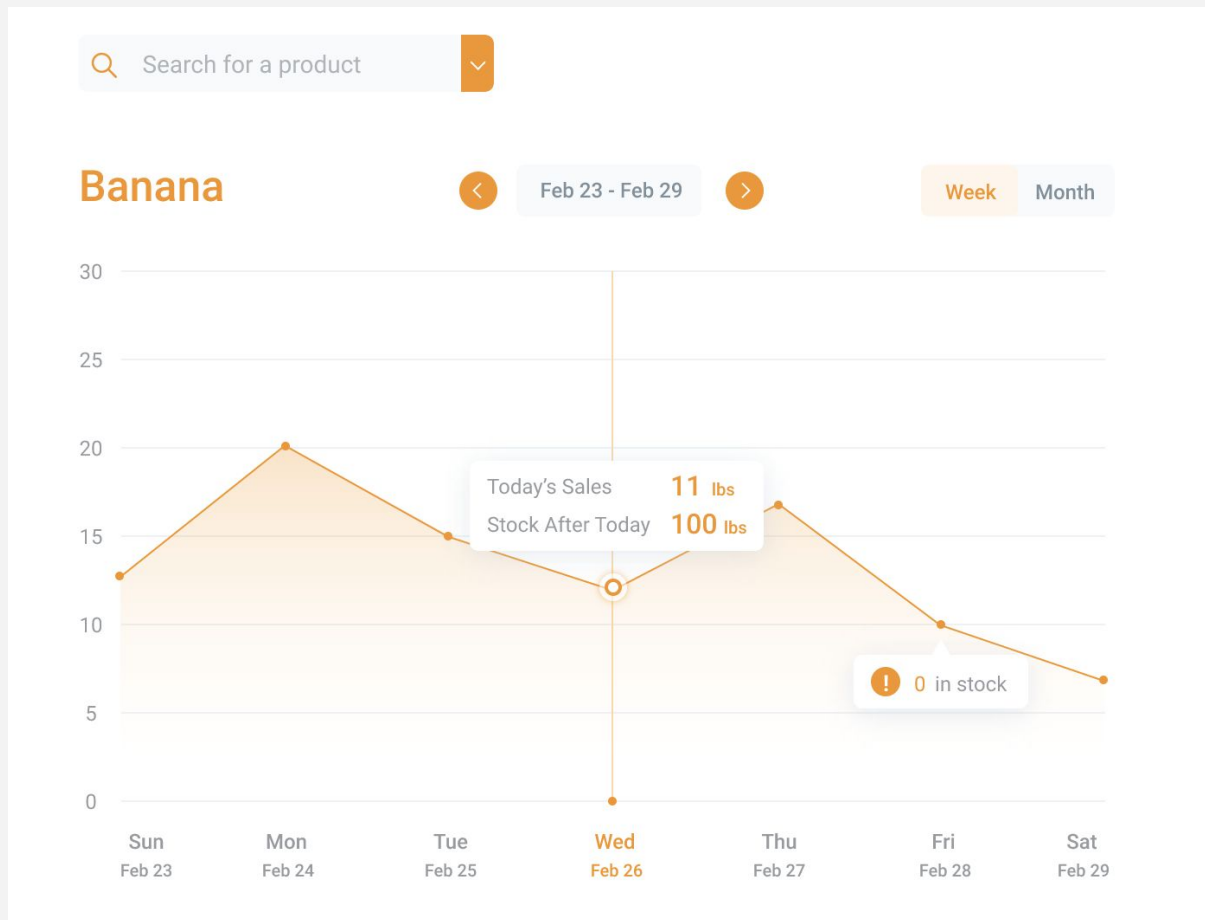
Feature Highlight

Item selection

Sales forecast

Restock Recommendation

Sales Visualization



Feature Highlight

Item selection

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Restock Reminder

Banana

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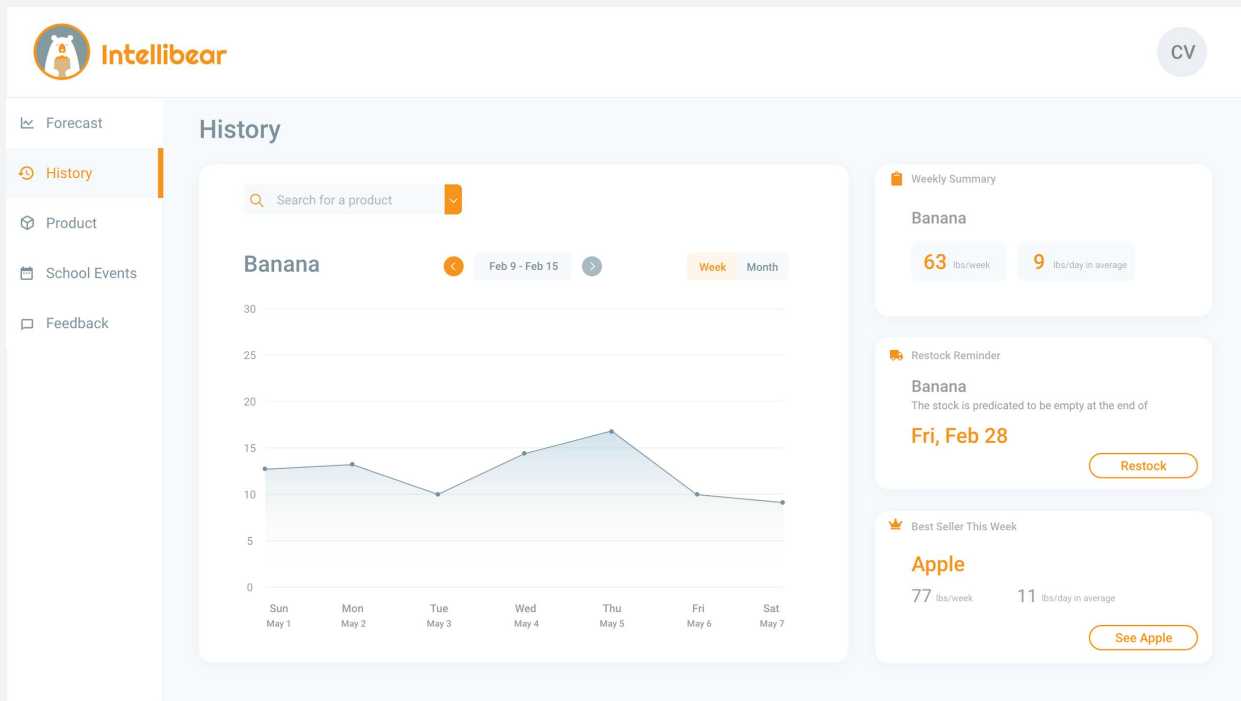
Feature Highlight

Item selection

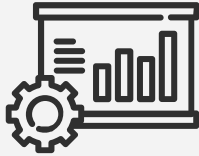
Sales forecast

Restock Recommendation

Sales Visualization



FUTURE PLAN



**Dashboard
Implementation**



More Features

Backend API
Supplier Management

...



Recruitment

Full stack developer
Backend Developer

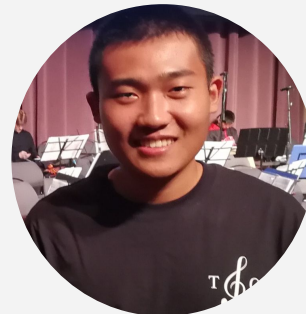
OUR TEAM



Daokun Shang



Kailing Ding



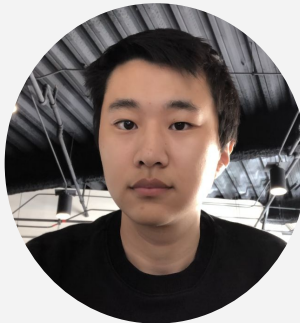
Bingqi Zhou



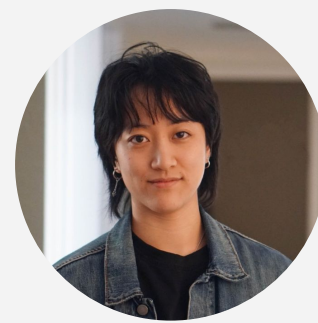
Jeffrey Wang



Shen Hu



Yuxuan Fan



Mona Luo

**THANK
YOU!**



Thank you for voting!