MAN456 - Business Analytics

Final Project

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Introduction

In this project, we analyze the daily meal distribution data from Bilkent University's main cafeteria, collected between December 26, 2022, and December 31, 2024, covering approximately two years of cafeteria operations across four academic periods.

The dataset includes detailed information on the daily lunch and dinner menus, broken down into four components: soup, main dish, side dish, and dessert (or fruit/appetizer options). Alongside the menus, the number of people who purchased meals for each session (lunch and dinner) is recorded. The dataset is organized by us before processing. You can see the examples of the dataset before and after process below. You can see the full-sized images in the Appendix .

			elu			ARA RESTO						
TARİH	SABAH KAHVALTI	TOPLAM	FİX ÖĞLE	KUMANYA ÖĞLE	FİX AKŞAM	KUMANYA AKŞAM	FIKS TOPLAM	SEÇMELI ÖĞLE	SEÇMELÎ AKŞAM	TOPLAM	TOPLAM (Ana Yemek)	TOPLAM KUVER
1/1/2024	9	9	182	0	199	0	381	32	216	248	629	638
1/2/2024	28	28	640	3	469	0	1112	78	82	160	1272	1300
1/3/2024	20	20	340	- 5	531	0	876	273	120	393	1269	1289
1/4/2024	21	21	415	7	202	0	624	107	142	249	873	894
1/6/2024	20		406	- 4	334	0	749	92	33	125	874	894
		20										
1/6/2024	10	10	94	0	185	0	279	95	22	117	396	406
1/7/2024	8	8	110	0	120	0	230	19	31	50	280	288
1/0/2024	11	11	153	3	130	1	287	128	27	155	442	453
1/9/2024	4	4	271	2	114	0	387	53	32	85	472	476
1/10/2024		5	190	2	59	ŏ	252	58	53	111	363	368
1/11/2024	3				98	0			17	176	390	393
		3	116	0			214	159				
1/12/2024	8	8	169	- 5	67	1	242	56	23	79	321	329
1/13/2024	5	5	31	0	35	0	66	20	7	27	93	98
1/14/2024	3	3	37	0	64	2	103	12	6	18	121	124
1/15/2024	2	2	808	3	62	0	873	60	18	78	951	953
1/15/2024		2	707	3	119	1	830	84	2	86	916	918
1/17/2024												
	4	4	765	4	49	0	818	63	38	101	919	923
1/15/2024	4	4	725	0	92	2	819	94	12	106	925	929
1/19/2024	- 1	- 1	184	4	76	2	266	41	- 5	46	312	313
1/28/2024	4	4	34	4	20	i i	58	12	17	29	87	91
1/21/2024	3	3	35	0	55	0	90	- 5	1	6	96	99
1/22/2024	2	2	93	3	116	3	215	112	11	123	338	340
1/23/2024	- 1	- 1	169	14	113	0	296	53	9	62	358	359
1/24/2024	-	9	148	8	92	ů	248	71	18	89	337	346
1/25/2024	1	1	186	0	124	1	311	97	9	106	417	418
1/26/2024	- 5	- 6	150	3	156	0	309	128	17	145	454	459
1/27/2024	2	2	114	0	151	0	265	14	9	23	288	290
1/28/2024	i	6	149	ŏ	155	o I	304	10	84	34	398	404
1/29/2024	41	41	1514	1	817	0	2332	215	56	271	2603	2644
1/30/2024	43	43	888	2	661	0	1551	507	93			2194
1/31/2024	37	37	1525	29	763	1	2318	97	78	175	2493	2530
TOPLAMLAR	322	322	9	115	6228	14	17705	2845	1288	4133		22160
				29 115	763 6228		2318 17705	97 2845		175 4133	2151 2493 21838	25

Figure 1: Unprocessed Data

Date	s_evening Soup	Main Dish	Side Dish	Extra Dish	Day of Week	Fix_Value
2023-01-01 00:00:00	0 KARNABAHAR ÇORBA	IZMIR KÖFTE	BULGUR PİLAVI	YOĞURT	Sunday	243
2023-01-01 00:00:00	1 KÖYLÜ ÇORBA	KIYMALI ISPANAK (YOĞURT)	SU BÖREĞİ	ELMA	Sunday	257
2023-01-02 00:00:00	0 MISIR ÇORBA	SICILYA USULÜ TAVUK (PÜRE)	AKDENİZ SALATA	SÜTLAÇ	Monday	818
2023-01-02 00:00:00	1 TARHANA ÇORBA	TAS KEBABI	ŞEH. PİRİNÇ PİLAVI	BAHÇE SALATA	Monday	773
2023-01-03 00:00:00	1 MERCİMEK ÇORBA	KÖRİ SOSLU KÖFTE	KAŞARLI ERİŞTE	ÇİKOLATALI İRMİK TATLISI	Tuesday	869
2023-01-03 00:00:00	0 SEBZE ÇORBA	ETLİ KURU FASULYE	BULGUR PİLAVI	TURŞU	Tuesday	425
2023-01-04 00:00:00	0 ALACA ÇORBA	ORMAN KEBAP	SPAGETTÍ NAPOLÍTEN	AYRAN	Wednesday	658
2023-01-04 00:00:00	1 YAYLA ÇORBA	KARIŞIK MUSAKKA	PEYNİRLİ RULO BÖREK	PORTAKAL	Wednesday	310
2023-01-05 00:00:00	1 DOMATES ÇORBA	PİLİÇ ROTİ (SEBZE HAŞLAMA)	BULGUR PİLAVI	YOĞURT	Thursday	694
2023-01-05 00:00:00	0 ŞEHRİYE ÇORBA	MEKSİKA KÖFTE (PATATES KAVURMA)	KARIŞIK SALATA	TULUMBA TATLISI	Thursday	731
2023-01-06 00:00:00	0 EZOGELİN ÇORBA	KIYMALI ISPANAK (YOĞURT)	PEYNİRLİ GÜL BÖREĞİ	MANDALINA	Friday	345
2023-01-06 00:00:00	1 KEREVİZ ÇORBA	ANKARA TAVA	MEVSİM SALATA	ELBASAN TATLISI	Friday	662
2023-01-07 00:00:00	1 MANTAR ÇORBA	KARIŞIK SEBZE GRATEN	YOĞURTLU MAKARNA	ELMA	Saturday	369
2023-01-07 00:00:00	0 ŞAFAK ÇORBA	TATLI - EKŞİ SOSLU TAVUK (DOM. PİRİNÇ PİLAVI)	AYRAN	ÇİKOLATALI PUDİNG	Saturday	464
2023-01-08 00:00:00	1 AYRANAŞI ÇORBA	ELBASAN KÖFTE	KAŞARLI CEVİZLİ ERİŞTE	AMASRA SALATA	Sunday	289
2023-01-08 00:00:00	0 BULGUR ÇORBA	ETLİ TAZE FASULYE	ARPA ŞEHRİYE PİLAVI	MUZ	Sunday	146
2023-01-09 00:00:00	0 ISPANAK ÇORBA	ET DÖNER (BULGUR PİLAVI)	AYRAN	MUHALLEBİLİ CEZERYE	Monday	404
2023-01-09 00:00:00	1 TARHANA ÇORBA	PİLİÇ KAVURMA (SEBZE HAŞLAMA)	PİRİNÇ PİLAVI	BAHÇE SALATA	Monday	275
2023-01-10 00:00:00	1 ALACA ÇORBA	KIYMALI TÜRLÜ	ISPANAKLI RULO BÖREK	MANDALİNA	Tuesday	101
2023-01-10 00:00:00	0 EKŞİLİ ANADOLU ÇORBA	IZMIR KÖFTE	PEYNİRLİ SPAGETTİ	SUP	Tuesday	311
2023-01-11 00:00:00	0 MERCÎMEK ÇORBA	ETLİ BEZELYE	ŞEH. PİRİNÇ PİLAVI	YOĞURT	Wednesday	243
2023-01-11 00:00:00	1 MİNESTRONE ÇORBA	ET SOTE (PATATES KAVURMA)	NİŞ SALATA	KAHVELİ KARAMELLİ ŞARLOT	Wednesday	120
2023-01-12 00:00:00	0 KÖYLÜ ÇORBA	PİLİÇ BAGET (PÜRE)	ZY. TAZE FASULYE	FINDIKPARE	Thursday	219
2023-01-12 00:00:00	1 YOĞURT CORBA	KARISIK MUSAKKA	PATATESLİ RULO BÖREK	PORTAKAL	Thursday	57
2023-01-13 00:00:00	1 KILIS CORBA	CIFTLIK KÖFTE	PİRİNÇ PİLAVI	YOĞURT	Friday	82
2023-01-13 00:00:00	0 LEBENÍ ÇORBA	KIYMALI FIRIN PATATES	PEYNİRLİ MAKARNA	MEVSİM SALATA	Friday	164
2023-01-14 00:00:00		KITIR PİLİC (SEBZE HASLAMA)	KASARLI ERİSTE	KAZANDİBİ	Saturday	94
2022 04 44 00 00 00		vinnit venani	DUI CUD DIL AVII	AVENAN	C I	

Figure 2: Dataset after processing

Additions to the Dataset:

To enhance the dataset's usability and ensure more accurate analysis, several modifications and additions were made. These adjustments help improve the consistency and clarity of the data, enabling better insights into meal patterns and attendance. Holiday dates are especially important for forecasting demand. Therefore, we found and added these features. The following additions were applied:

- Annotate special periods such as national holidays, Ramadan, and final exam periods.
- Outlier detection is done and eliminated from the dataset (Earthquake in 2023).
- Data is segmented according to academic semesters: Fall, Spring, Summer, Summer Holiday and Winter Break.
- Since some food, such as Helva and Turşu, only appear with specific Main Dishes, we eliminated these correlated features after one-hot encoding.
- Different variations of chicken, meatball, and fish dishes are consolidated into the 'main_dish_chicken', 'main_dish_meatball', and 'main_dish_fish' columns. For example, dishes like 'Piliç Roti' and 'Piliç Kavurma' are categorized under 'main_dish_chicken' rather than being listed as separate entries.

- Extra Dish and Side Dish might contain the same dishes; therefore, we one-hot encoded them together.
- All different salad items are consolidated into the one salad column.

The academic calendar is defined as follows:

Academic Calendar

2022-2023 Academic Year

• Fall Semester: Until January 9, 2023

Final Exams: December 26, 2022 – January 9, 2023

• Spring Semester: January 30, 2023 – June 16, 2023 Final Exams: June 4 – June 16, 2023

• Summer Term: July 3, 2023 – August 15, 2023 Final Exams: August 12 – August 15, 2023

2023-2024 Academic Year

• Fall Semester: September 14, 2023 – January 6, 2024 Final Exams: December 22, 2023 – January 6, 2024

• Spring Semester: January 29, 2024 – June 1, 2024 Final Exams: May 20 – June 1, 2024

• Summer Term: June 10, 2024 – August 6, 2024 Final Exams: August 3 – August 6, 2024

2024-2025 Academic Year

• Fall Semester: September 16, 2024 – January 8, 2025 Final Exams: December 26, 2024 – January 8, 2025

This segmentation allows us to analyze potential differences in cafeteria usage across regular academic periods, final exam periods, and special event days.

Through predictive modeling and exploratory analysis, our study aims to understand how different factors — such as semester timing, final exams, Ramadan, day of the week, and

menu composition — influence cafeteria participation. We aim to predict daily meal demand more accurately, identify the menu components that attract higher or lower participation, and ultimately offer recommendations to minimize food waste and improve service planning. Our last dataset attributes look like this before One-Hot encoding them.

Variable	Type	Usage	Description
Is_evening?	Boolean	Input	Indicates whether the meal is an evening meal
			or lunch.
Soup	Categorical	Input	Soup served in the menu.
Main Dish	Categorical	Input	Main dish served in the menu.
Side Dish	Categorical	Input	Side dish served in the menu.
Extra Dish	Categorical	Input	Additional dish served in the menu.
Day of Week	Categorical	Input	Day of the week (Monday to Friday).
Is_holiday?	Boolean	Input	Indicates whether the day is a national holi-
			day.
Ramadan	Boolean	Input	Indicates whether the day falls within Ra-
			madan.
Semester	Categorical	Input	Academic semester at Bilkent University.
Is_final_time?	Boolean	Input	Indicates whether the day is during the final
			exam period.
Month	Categorical	Input	Month of the year.
Year	Categorical	Input	Year.
Fix_ Value	Numerical	Output	Total demand for the fixed (set) menu.

Table 1: Description of Variables Used in the Dataset

Part 2

Problem Statement

Initially, the main identified problem was the unknown demand of the cafeteria, which could lead to two key issues:

- Customer dissatisfaction due to insufficient food availability during peak times.
- Food waste caused by preparing an excess of food that goes uneaten.

To address this, our objective was to investigate the factors that influence cafeteria use, with a particular focus on how different meals affect attendance, as well as to identify seasonal trends and special periods (such as exam weeks or holidays). Our goal was to analyze how these elements affect meal consumption patterns to inform more efficient meal planning and reduce waste.

The following questions were asked for the problem definition and the analysis was assessed to answer these.

- Which foods affect the number of people using the cafeteria on a given day?
- Which periods, such as seasonality, holidays, exam periods, or Ramadan, significantly influence attendance patterns?

Initial Analysis of the Data

After the problem statement, we analyzed the assumptions and divided the data into several segments to assess the effects before applying analytical methods.

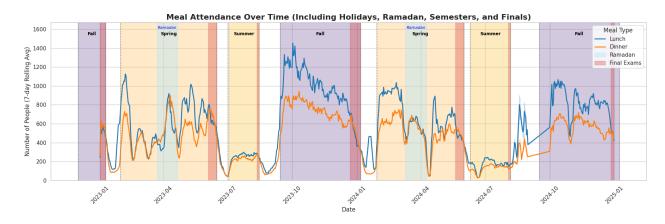


Figure 3: Meal Attendance Over Time

This figure shows meal attendance over time; including Ramadan, semesters and final periods. From this, we can observe the impact of these periods on attendance. It was seen that in each final season, meal attendance decreases; likely due to the end of classes and students leaving the dormitories.

We also observed that dinner attendance is generally lower than lunch attendance. However, during Ramadan, this trend reverses: dinner attendance rises to match or exceed lunch attendance, while lunch attendance drops. This shift aligns with expectations, as students fasting for Ramadan typically come to the cafeteria for dinner and skip lunch.

Additionally, some outliers were identified in the spring semester of 2023–2024, there was an unusually sharp decline in meal attendance. Upon further research, it was seen that this was likely influenced by the earthquake that occurred on February 6, 2023, which effected the semester. We treated this period as an outlier up until March 20, 2023. Other outliers were observed as sharp drops between semesters. To better understand these patterns, an additional graph showing the holiday periods was created.

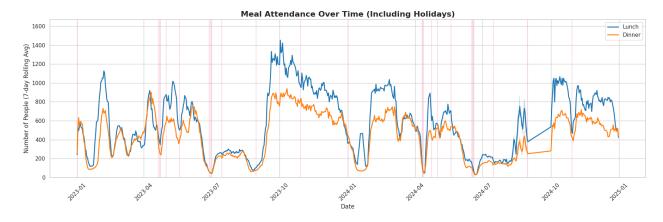


Figure 4: Meal Attendance Over Time Including Holidays

This figure shows that the drops in attendance coincide with designated holiday periods, confirming that holidays significantly impact meal attendance.

Part 3

Implementation of Analytic Methods

In this section, we experimented with several machine learning models, including Linear Regression, Random Forest, the Lasso variant of Linear Regression, and LightGBM. We used 80% of our dataset for training and 20% for testing. Given that we have many categorical variables (over 1000 after one-hot encoding), our models tended to overfit without feature selection. To mitigate this, we applied backwards elimination for the Linear Regression, while the other models inherently handle feature selection. Additionally, we found that applying a log transformation to the target variable (Y) significantly improved the model's performance, as it helped to stabilize the variance and make the data more normally distributed. The test dataset scores of the models we tried will be compared in the Comparison of the Models section.

Linear Regression

We applied Linear Regression with all the Features first. Then get the results below.

Model:	OLS	Adj. R-squared:	0.652
Dependent Variable	Fix_Value	AIC:	2130.3425
Date:	2025-05-02 11:45	BIC:	3202.2555
No. Observations:	1081	Log-Likelihood:	-850.17
Df Model:	214	F-statistic:	10.47
Df Residuals:	866	Prob (F-statistic):	3.27e-141
R-squared:	0.721	Scale:	0.35233

Figure 5: Linear Regression

The high difference between R-square and adjusted R-square is caused by the high number of variables. Therefore, we applied backwards elimination with a significance level of 0.05.

Model:	0LS	Adj. R-squared:	0.675
Dependent Variable:	Fix_Value	AIC:	1902.2508
Date:	2025-05-02 11:46	BIC:	2081.7339
No. Observations:	1081	Log-Likelihood:	-915.13
Df Model:	35	F-statistic:	65.09
Df Residuals:	1045	Prob (F-statistic):	6.37e-235
R-squared:	0.686	Scale:	0.32926

Figure 6: Linear Regression after backward elimination

We used Cook's distance to identify additional outliers and eliminated the ones with Cook's distance higher than 0.02.

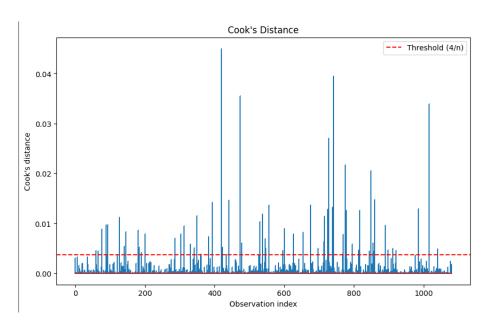


Figure 7: Cook's Distance

Then applied Linear Regression with backward elimination again.

```
Adj. R-squared:
Model:
                          0LS
                                                                             0.702
Dependent Variable:
                          Fix_Value
                                                  AIC:
                                                                             1796.1993
                           2025-05-02
                                                                             1970.4694
Date:
                                      11:50
                                                  BIC:
No. Observations:
                                                  Log-Likelihood:
                                                                             -863.10
                           1074
                                                  F-statistic:
Df Model:
                           34
                                                                             75.22
Df Residuals:
                           1039
                                                  Prob (F-statistic):
                                                                             5.34e-253
R-squared:
                          0.711
                                                                             0.30195
                                                  Scale:
```

Figure 8: Linear Regression after backward elimination

Our model significantly works better with additions we added.

Linear Regression with Lasso

We employed Lasso Regression not only to mitigate overfitting but also as a method for feature selection. By applying L1 regularisation, Lasso penalises the absolute size of the coefficients, effectively shrinking some of them to zero. This leads to a sparse model where only the most relevant features are retained, which is particularly useful in our case, given the high dimensionality introduced by one-hot encoding.

	Results: Ordinary l	east squares	
Model:	OLS	Adj. R-squared:	0.698
Dependent Variable:	Fix_Value	AIC:	1822.6660
Date:	2025-05-02 11:51	BIC:	2066.6441
No. Observations:	1074	Log-Likelihood:	-862.33
F Model:	48	F-statistic:	52.67
o∓ Residuals:	1025	Prob (F-statistic):	1.14e-240
R-squared:	0.712	Scale:	0.30564

Figure 9: Linear Regression after backward elimination

Random Forest

We utilized the Random Forest algorithm due to its robustness against overfitting and its ability to handle high-dimensional data effectively. As an ensemble of decision trees, Random Forest averages the predictions of multiple trees, reducing variance and improving generalization. Moreover, it inherently ranks features by their importance in predicting the target variable, which provides valuable insights into which variables contribute most to model performance. This makes Random Forest particularly suitable for our dataset, where numerous categorical features emerge from one-hot encoding.

For Random Forest and LightGBM, we applied GridSearchCV to tune our parameters. The best parameters for Random Forest are: max_depth=None, min_samples_leaf=2, min_samples_split=10, and n_estimators=100.

R-squared value for Random Forest (train) is 0.84

LightGBM

We chose LightGBM as one of our models due to its efficiency and ability to handle large-scale data with high cardinality, which fits our dataset that includes many one-hot encoded variables. LightGBM is a gradient boosting framework that grows trees leaf-wise, resulting in faster training and often higher accuracy compared to traditional boosting methods. It inherently deals with multicollinearity and captures non-linear relationships without requiring extensive preprocessing. Additionally, LightGBM is resistant to overfitting to some extent, but we still applied hyperparameter tuning through GridSearchCV to optimize its performance. Its built-in handling of categorical features and regularization terms helped improve generalization.

The best parameters found were: learning_rate=0.1, max_depth=10, n_estimators=100, num_leaves=31, and subsample=0.8. These settings improved both the accuracy and generalization capability of the model.

R-squared value for LightGBM (train) is 0.814

Comparison of the Models

Performance Measures	Linear Regression	Lasso	Random Forest	LightGBM
Train R-square	0.71	0.71	0.84	0.81
Test R-square	0.71	0.72	0.73	0.76
Test MSE	55024	53312.73	51155.94	45544.21
Test MAE	155	151.38	153.45	138.30
Test MAPE	51.76	51.82	65.25	54.5

Table 2: Model Comparison

Although Random Forest achieves the highest Train R-square, its performance drops on the test set, indicating slight overfitting. In contrast, LightGBM demonstrates better generalization, as reflected in its superior Test R-square, suggesting it captures the variance in the data more effectively. Furthermore, LightGBM significantly outperforms the other models in terms of both Mean Squared Error (MSE) and Mean Absolute Error (MAE), indicating more accurate and consistent predictions. Therefore, we decided to continue our project with LightGBM model.

Lastly, the MAPE values exceed 50%, indicating large percentage errors. However, this high error might be due to the small values of the target variable, where even minor deviations in predictions result in significant percentage changes in the error measure.

Part 4

Interpretation of the Results

Effects of the Variables

Since LightGBM doesn't include interpretable coefficients of the model as linear regression does, we used SHAP Values to understand the impact of features.

SHAP graph contains variables sorted by importance level in the Y axis, with the most important feature at the top and decreasing in importance toward the bottom. The top features have the largest overall impact on the predictions.

The X-axis contains SHAP values that indicate how much a feature contributed to pushing the prediction up or down for a specific observation. A positive SHAP value means the feature increased the predicted value, whereas a negative SHAP value means the feature decreased the predicted value.

Since we used categorical variables only for modeling, the red dots show that the categorical variable exists (value = 1), and the blue dots mean it does not.



Figure 10: SHAP Graph - Top 20 Features

As shown in the SHAP graph above, the top 20 features are displayed. A graph with

additional features is also included in the appendix. From the graph, it is evident that the most important features are related to holiday variables, such as Summer Holiday, Summer Semester, Saturday, Sunday, and Winter Break. Red dots appear when these variables are active and it can be observed that SHAP values are significantly lower during these periods.

Another important factor is the Evening feature, where the demand for evening meals is lower, as expected, since not all students remain for dinner in the evening. Additionally, the demand for 2023 was higher than for 2024, suggesting that if you plan to use the model for future years, such as 2025, the Year feature can be excluded.

Similar to other holidays, National Holidays and Final Exam periods also negatively impact demand, as many people return to their hometowns. Moreover, demand tends to be higher on Mondays and lower on Fridays, possibly reflecting students' schedules and routines. Also, Ramadan is an important feature since people don't prefer eating at lunch times when they feasting.

Menus containing chicken dishes, meatball dishes, kebabs, meat doner, and salads increase the demand as expected, whereas dishes like spinach soup, minced meat stew, beans, and mixed moussaka reduce the demand.

You can observe how other meals effects the demand in Appendix.

Moreover, for the initial questions we had for the analysis, the answers can be seen in the following table:

Question	Answer
Foods increasing attendance	Chicken, meatballs, kebabs, döner, salads ↑
Foods decreasing attendance	Spinach soup, minced stew, beans, moussaka \downarrow
Low-demand periods	Holidays, weekends, exams, Ramadan, evenings
High-demand days	Mondays
Low-demand days	Fridays

Table 3: Answers to Initial Questions

Benefits of the Model to the Cafeteria

To evaluate the benefits of our model, we assumed a scenario in which the cafeteria prepares a fixed number of meals each day. Days were divided into weekdays and weekends, and the fixed meal amounts were determined using the average number of people who received the fixed menu in the training dataset:

• 900 meals on weekdays

• 303 meals on weekends

To ensure a precise and unbiased evaluation, both the baseline and model predictions were tested only on days that were not during Ramadan, holidays, or the summer semester. These were excluded since demand patterns in these periods differ significantly.

The comparison between the fixed plan and the model's output is summarized below:

Table 4: Comparison of Baseline vs. Model Plan Performance

Metric	Baseline Plan	Model Plan	Improvement
Waste (Weekday)	978 meals (15.3%)	212 meals (3.3%)	12.0% waste
Shortage (Weekday)	1059 meals (16.6%)	742 meals (11.6%)	5.0% shortage
Waste (Weekend)	757 meals (14.5%)	521 meals (10.0%)	4.5% waste
Shortage (Weekend)	1138 meals (21.8%)	609 meals (11.6%)	10.2% shortage

As seen in the table, the model significantly reduces both overproduction (waste) and underproduction (shortage) compared to the fixed plan. This can help the cafeteria:

- Minimize food waste and reduce unnecessary costs
- Avoid shortages that negatively impact students and staff
- Dynamically adjust meal and staffing plans to better reflect real demand

Because the analysis was performed on a restricted dataset, continuing to gather and update the data over time would result in more accurate and sustainable solutions. Furthermore, setting a minimum level of staff and meals for normal semester days could ensure that student and staff needs are met while reducing food waste and operating costs.

Appendix

		· ·	SUBAT 2024 - FIKS MENU			
29/01/2024	30/01/2024	31/01/2024	01/02/2024	02/02/2024	03/02/2024	04/02/2024
OĞURT ÇORBA	BULBURÇORBA	YAYLA ÇORBA	LEBENÍ CORBA	SEHRIYE CORBA	MANTAR COFBA	SEBZE ÇORBA
BRIS KÖFTE (SEBZE HAŞLANA)	KIYMALI ISPANAK (YOĞURT)	AVCI USULO TAVUK (PATATES TAVA)	KARIŞIK MUSAKKA	ORMAN KEBABI	KAŞARLI KÖFTE (SEBZE HAŞLAMA)	ETJ NOHUT
LOUR PLAVI	SU SORES!	KIS SALATA	SOSLU WAKARNA	DOM PIRING PILAW	ERISTE (SEALE 1995 1997)	BLLGUR PILAVI
SPTEKAI	FINA	ELBASAN TATLISI	MUZ	PANCARLI BAHCE SALATA	PORTAKAL	YOĞUFT
EGAN MANTAR SOTE	VEGAN ISPANIAK KAVURIJA (NOĞURT)	VERAN BROKOL/	VEGAN KARISIK MUSAKKA	VEGAN SEBZE KAVURMA (YOĞURT)	VEGAN YUFKADA ISPANAK JI DOLMA	VEGAN NOHUT
29/01/2024			01/02/2024	02/02/2024	D3/02/2024	04/02/2024
	30/01/2024	31/01/2024				
NESTRONE ÇCRBA	KARVABAHAR ÇORBA	KEREVÍZ ÇORBA	ŞAFAK ÇORBA	EZOGELÍN ÇCRBA	ROMEN ÇORBA	YARMA ÇORBA
RIN TAVUK (FATATES KAVURIJA)	ET SOTE (DOM: PIRING PLAV)	TERB/YEL/ KÖFTE	PILÇ MEKSIKA (DİLİM PATATES)	KIYIVALI YEŞİL MERCİNEK	PILIÇ BÜRYANI	ÇCBAN KAVJRMA (PÜRE)
Ş SALATA	KARIŞIK BALATA	FES. SOSLU SPAGETTI	MEVSIM SALATA	ISPANAKLI GÜL BÖREĞİ	AKDENIZ SALATA	ANASRA SALATA
JLUNIBA TATLISI	ÇİLEKLİ ŞARLOT	ASANDALINA	EJDER TATLISI	YOĞURT	PUDÍNGLÍ PASTA	BADEM TATUSI
EGAN ÍÇLÍKÖFTE (DONATES-BÍBER)	VEGAN YUFKADA NERCINEKLÍ DOLINA	VEGAN TAZEFASLLYE	VEGAN FIRIN PATATES	VEGAN YEŞİLMERCİMEK	VEGAN İÇLİ KÖFTE (DOMATES-BİBER)	VEGAN PIRASA
05/02/2024	06/02/2024	07/02/2024	08/02/2024	09/02/2024	10/02/2024	11/02/2024
JLGJR ÇORBA	YOĞURT ÇORBA	TARHANA ÇORBA	EKŞİLİ ANADOLU ÇOFBA	EZOGELÍN ÇCRBA	ALACA ÇORBA	DCMATES ÇORBA
LIC STROGANOF	KIYMALITÜRLÜ	MACAR GULAS	OLIMPIYAT KÖFTE (DILIM PATATES)	KIYIVALI ISPANAK (YOĞURT)	PILIC RCTI (PATATES KAVURMA)	KADINBUDU KÖFTE (PÜRE)
NHÇVANUSULÜ MAKARNA	PIRNC PILAN	KASARJI ERISTE	AMASRA SALATA	SU BÖREĞİ	AKDENIZ SALATA	KIS SALATA
\$ SALATA	MANDALINA	AYRAN	HIRA TATUSI	ELMA	SÜTLAÇ	KEMAL®AŞA TATLISI
GAN BEZELYE	VEGAN TÜRLÜ	VEGAN BARBUNYA	VEGAN BROKOLI	VEGAN ISPANAK (YOĞURT)	VEGAN LAHANA KAVURMA	VEGANÍCLÍKÖFTE (SEBZE HASLAM
05/02/2024	06/02/2024	07/02/2024	08/02/2024	09/02/2024	10/02/2024	11/02/2024
DYLÜ CORBA	DOWATES CORBA	MISIR COREA	DÜĞÜN ÇORBA	MAŞ FASULYESİ ÇORBA	ŞEHRİYE ÇORBA	RCMEN CORBA
RINKÖFTE		ET.J TAZE FASULYE		SUMAKLIKÖFTE	YOĞURTLU KEBAP	ETJ BEZELYE
	SICLYAUSULÜ TAVUK (PÜRE)		PILIÇ TANDIR (SEBZE HAŞLAMA)			
RPAŞEHRİYEPİLAVI	KARIŞIK SALATA	BULGUR PILAVI	FETTUCINI ARABATA	ARPA ŞEHRİYE PİLAVI	ZY. MANTAR	MISIRLI PİRİNÇ PİLAVI
UZ	MUHALLEBİLİ CEZERYE	PORTAKAL	BAHÇE SALATA	VANILYALI ŞARLOT	MUZ	YOĞURT
EGAN MANTAR SCTE	VEGAN YUFKADA SEBZELÍ DOLMA	VEGAN FASJILYE KAYURNA (YOĞURT)	VEGAN KARIŞIK MUSAKKA	VEGAN FIRIN PATATES	VEGAN YUFKADAMERCİMEKLİ DOLMA	VEGANBEZELYE
12/02/2024	13/02/2024	14/02/2024	15/02/2024	16/02/2024	17/02/2024	18/02/2024
NESTRONE ÇORBA	ÇERKEZ ÇORBA	MISIR ÇOREA	TARHANA ÇORBA	BULGUR ÇORBA	EKŞİLİ ANADOLU ÇORBA	SEBZE ÇORBA
AS KEBABI	KIYMALI FIRIN PATATES	AVCI USULŪ TAVUK	BELEN KÖFTE (SEBZE HAŞLAMA)	KARIŞIK MUSAKKA	HÍNDÍLÍ KONYA KEBAP	PİLİÇ KAVURMA (DİLİM PATATES)
AŞARLI CEVİZLİ ERİŞTE	ARPA ŞEHRİYE PİLAVI	DCM. PIRINÇ PILAVI	BAHÇIVAN USULÜ MAKARNA	ERIŞTE	ZY: KEREVÍZ	PANCARLI BAHÇE SALATA
ÍŞ SALATA	YOĞURT	KIŞ SALATA	AYRAN	ELMA	KARAMELLİ ŞARLDT	SUSAM TATUSI
EGAN PIRASA	VEGAN FIRIN PATATES	VEGAN SEBZE KAVURMA (YOĞURT)	VEGAN ÇLÎ KÖFTE (SEBZE HAŞLAMA)	VEGAN KARIŞIK MUSAKKA	VEGAN YUFKADA ISPANAKLI DOLIMA	VEGAN BARBUNYA
12/02/2024	13/02/2024	14/02/2024	15/02/2024	16/02/2024	17/02/2024	18/02/2024
YRANASICORBA	KEREVİZ ÇORBA	YARMA CORBA	LEBENÍ ÇORBA	KILIS CORBA	DOMATES ÇORBA	ŞAFAK ÇORBA
AŞARLI TAVUK (DİLİM FATATES)	SAHAN KÖFTE	KIYMALI YEŞİL NERCİMEK	ÇİFTLİKKEBABI	TATU EKŞİ SOSLUTAVUK (PÜRE)	ETLÍ TAZE FASULYE	TARHANALI KÖFTE
EVSIM SALATA	BULGUR PİLAVI	PEY GÜL BÖREĞİ	BULGUR PILAVI	AMASRA SALATA	ARPA SEHRIYE PİLAVI	PEYNIRLI MAKARNA
OBNET	MUZ	MANDALINA	CİKOLATALI İRMİK TATLISI	FINDIKLI KESKÜL	YOĞURT	M.Z
EGAN KARNABAHAR			VEGAN WANTAR SOTE			
	VEGAN KABAK MUSAKKA (YOĞURT)	VEGANYEŞİL MERCİMEK		VEGAN BROKOLI	VEGAN TAZE FASULYE	VEGAN PIRASA
19/02/2024	20/02/2024	21/02/2024	22/02/2024	23/12/2024	24/02/2024	25/02/2024
OĞURT ÇORBA	20/02/2024 MISIR ÇORBA	21/02/2024 YAYLA ÇORBA	22/02/2024 MERCÍNEK ÇORBA	23/12/2024 AYRANAŞI ÇORBA	24/02/2024 ROMEN ÇORBA	25/02/2024 BROKCLÍ ÇORBA
DĞ <mark>urt Çorba</mark> T.İ Kuru Fasulye	20/02/2024 MISIR ÇORBA MEKSİKA KÖFTE (SEBZE HAŞLAMA)	21/02/2024 YAYLA ÇORBA ETTİRİDİ	22/02/2024 MERCİNEK ÇORBA SEBZELİ TAVUK	23/02/2024 AYRANAŞI ÇORBA KIYMALI TÜRLÜ	24/03/2024 RONEN ÇORBA PİLİÇ BÜRYANİ	25/02/2024 BROKCLÍ ÇORBA TERBÍYELÍ KÖFTE
OĞURT ÇORBA ILİ KURLI FASULYE IS. FİRİNÇ PİLAVI	20/02/2024 MISIR ÇORBA MEKSİKA KÖFTE (SEBZE HAŞLAMA) BULGUR PİLAVI	2 VO2/2024 YAYLA ÇORBA ETTİRİDİ MEVSİM SALATA	22/02/2024 MERCİMEK ÇORBA SEBZELİ TAVUK ARPA ŞEHRİYE PİLAVI	23/12/2024 AYRANAŞI ÇORBA KIYIVALI TÜRLÜ PEY, RULO BÖREK	24/00/2024 ROMEN ÇORBA PÎLÎÇ BÜRYANÎ KARIŞIKSALATA	25/02/2024 BROKCLÍ ÇORBA TERBÍYELÍ KÖFTE FES. SOSLU MAKARNA
DĞURT ÇORBA T.İ KURU, FASULYE IS. FIRINÇ PİLAVI JRŞJ	20/09/2024 MISIR ÇORBA MEKSİKA KÖFTE (SEEZE HAŞLAMA) BULĞUR PİLAVI PORTAKAL	21/02/2024 YAYLA ÇORBA ETTİRDİ MEVSİM SALATA HAŞHAŞLI ŞEKERPARE	22/12/2024 MERCÍNEK ÇORBA SEBZELÍ TANJIK ARPA SEHRÍYE PÍLAVÍ AYRAN	23/12/2024 AYRANAŞI ÇORBA KIYINALI TÜRLÜ PEY, RÜLÜ BÖREK MUZ	24/02/2024 ROMEN ÇORBA PILİÇ BÜRYANİ KARŞIK SALATA TIRAMIŞİ	25/02/2024 BROKCLÍ ÇORBA TERBÍYELÍ KÖFTE FES. SOSLLI MAKARNA ELMA
OĞURT ÇORBA LÎ KURU FASULYE IS, FIRÎNÇ PİLMI JRŞJ EĞAN KURU FASULYE	20/02/2024 MISIR ÇORBA MEKSÎKA KÖFTE (SEEZE HAŞLAMA) BULGUR PİLAVI PORTAKAL VEGAN SEZELYE	2102/2024 YAYLA ÇORBA ETTİRDİ MEVSİM SALATA HAŞHAŞLI ŞIKKERPARE VEŞANİÇLİKÖFTE (DOMATES BİBER)	22/02/2024 MERCINEK ÇORBA SEBZELI TAVUK ARPA ŞEHRÎYE PILAVI AYRAN VEGAN BROKOLÎ	23/12/2024 AYRANAŞI ÇORBA KYYMALI TÜRLÜ PEY, RULO BÖREK MUZ VEGAN TÜRLÜ	24/02/2024 ROMEN ÇORBA PILLE BÜRYÜNİ KARŞIK SALATA TIRAMİS J VESAN FIRIN PATATES	25W2/2024 BROKQLİ ÇORBA TERBİYELİ KÖFTE FES, SOSLI MAKARNA ELMA VESAN BEZELYE
DĞURT ÇORBA T.İ KURU, FASULYE IS. FIRINÇ PİLAVI JRŞJ	20/09/2024 MISIR ÇORBA MEKSİKA KÖFTE (SEEZE HAŞLAMA) BULĞUR PİLAVI PORTAKAL	21/02/2024 YAYLA ÇORBA ETTİRDİ MEVSİM SALATA HAŞHAŞLI ŞEKERPARE	22/12/2024 MERCÍNEK ÇORBA SEBZELÍ TANJIK ARPA SEHRÍYE PÍLAVÍ AYRAN	23/12/2024 AYRANAŞI ÇORBA KIYINALI TÜRLÜ PEY, RÜLÜ BÖREK MUZ	24/02/024 ROMEN ÇORBA PILIÇ BÜRYANİİ KARŞIK SALATA TİRAMİSJ VEGAN TIRIN PATATES 24/02/024	BROKCLI ÇORBA TERBİYELİ KÖFTE FES. SOSLLI MAKARINA ELMA VEGAN BEZELYE 25R02'2024
OĞURT ÇORBA LÎ KURU FASULYE IS, FIRÎNÇ PİLMI JRŞJ EĞAN KURU FASULYE	20/02/2024 MISIR ÇORBA MEKSÎKA KÖFTE (SEEZE HAŞLAMA) BULGUR PİLAVI PORTAKAL VEGAN SEZELYE	2102/2024 YAYLA ÇORBA ETTİRDİ MEVSİM SALATA HAŞHAŞLI ŞIKKERPARE VEŞANİÇLİKÖFTE (DOMATES BİBER)	22/02/2024 MERCINEK ÇORBA SEBZELI TAVUK ARPA ŞEHRÎYE PILAVI AYRAN VEGAN BROKOLÎ	23/12/2024 AYRANAŞI ÇORBA KYYMALI TÜRLÜ PEY, RULO BÖREK MUZ VEGAN TÜRLÜ	24/02/024 ROMEN ÇORBA PILIÇ BÜRYANİİ KARŞIK SALATA TİRAMİSJ VEGAN TIRIN PATATES 24/02/024	25W2/2024 BROKQLİ ÇORBA TERBİYELİ KÖFTE FES, SOSLI MAKARNA ELMA VESAN BEZELYE
OGURT ÇORBA TÜRURU FASULYE IS FIRINÇ PILAVI RIŞU EGAN KURU FASULYE 1802/2024 ROKOLI ÇORBA	20/09/2024 MISIR ÇORBA MIKISİN KÖFTE (SEBZE HAŞLAMA) BUĞUB PÜLMI PORTAMAL VEĞAN BEZELYE 20/09/2024 MANTAR ÇORBA	2102/2024 YAYLA ÇORBA ETTİRDİ MEVSİM SALATA HAŞHAŞLI ŞEKERPARE VEŞANİÇLIKÖFTE (DOMATES BİBER) 2102/2024	2202/2024 MERCIMEK ÇORBA SERZELI TAVUK ARPA ŞEHRİYE PILAVI AYRAN VEGAN BROKOLI 220/2/2024	23/42/2024 AYRANAŞI ÇORBA AYRANAŞI ÇORBA AYRANAŞI TÜRLÜ PEY, RULO BÖREK MUZ VEGAN TÜRLÜ 23/42/2024	ZA/02/2024 ROMEN ÇORBA PILLE BÜRYÜNİ KARŞIK SALATA TIRAMİS J VESAN FIRIN PATATES	BROKCLI ÇORBA TERBİYELİ KÖFTE FES. SOSLLI MAKARINA ELMA VEGAN BEZELYE 25R02'2024
JÖLIRT ÇORBA Lİ RURLI, FASULYE S. FIRİND, PÜLMİ IRŞLI SGAN KURU FASULYE 1800/2024 ROVOLLİ ÇORBA D'ONLER (PÜRE)	20/09/2024 MISIR ÇORBA MISIR ÇORBA MIKSİNIK KÖPTE (SEEZE HAŞLAMA) BULGUP PİLAVI PORTAVAL VEĞAN BEZELYE 20/09/2024 MANTAF ÇORBA MANTAF ÇORBA TAMAKLI BUĞÜ KEBAP	2102/2024 YAVLA ÇORBA ETTİRİDİ MEVSIN SALATA MEVSIN SALATA VEŞANİ ÇİLKERİN ŞOLGERANE VEŞANİÇLİKÖFTE (DOMATES BİBER) 2102/2024 TARHANA ÇORBA	22/92/824 MERCINEK ÇORA SERZELI TANUK ARRA ŞEHRİRE PLAVI ARRAN İSCHOLİ VEŞAN İRKOCLİ 22/92/824 ÇERKEZ ÇORBA KYMALI İSRANAN (YOĞURT)	AYRANAŞI ÇORBA KYNANAŞI ÇORBA KYNAUL TÜRLÜ PEY RILO BÖREK MUZ VEŞAN TÜRLÜ DOMATES ÇORBA PİDLÜ KÖFTE	ROMEN (CORRA. ROMEN (CORRA. PILL'S BETYNNI KAPSIN SALATA TIRAMIS) VECAN FIRIN PATATES 2400/2004 BÖPÜLCE (CORRA. MISTI PETAP	BROKULÍ ÇORBA BROKULÍ ÇORBA TERBÍYELÍ KÖFTE FES. SOSILÍ MAKARNA ELMA VEGAN BEZELYE KIÚS ÇORBA
DOLITE CORRIA TO JURNE, FARILLYE SI, PIRINC PILANA RRAJ SI, PIRINC PILANA RRAJ THE THROUGH FASILIYE THROUGH CORRIA TO DONER PORE) ODNER PORE)	20/09/2024 MISIR ÇORBA MIKISİN KÖFTE (SEBZE HAŞLAMA) BUĞUB PÜLMI PORTAMAL VEĞAN BEZELYE 20/09/2024 MANTAR ÇORBA	21020024 YWLA CORA ETTIROI MEVSIIS SALATA MEVSIIS SALATA MEVSIIS SALATA TRAPAGAL GERETARAE VESANIÇLI KOFTE (DOMATES BIBER) 21020024 TARIMAN CORBA KORI SOSU KOFTE SSRIGETTI MEVOLITEN	2202/244 MERCÍNEK ÇORSA SERZELI TAMUK APPA ŞEHRİYE PİLAVI AYRAN VEGAN BROKOLİ 2202/2424 ÇERKEZ ÇORSA	2342/2024 AYRANAŞ ÇERBA KIYMALI TÜRLÜ PEV RILO BÖREK MUZ VEGAN TÜRLÜ 2342/2024 DOMATES ÇORBA	ROMEN CORBA PILL DECRYMI PILL DECRYMI FARSK SALATA TIRAMS J VEGAN FIRIN-PAINTES 24002028 BOFFILLE CORBA MISHT KEBAP KASPIT CEMZ JERISTE	BROKOLI ÇORBA TERBİYELI KÖFTE FES. SOSLI MAKARNA ELMA VEŞAN BEZELYE 25/02/2024 KİLIS ÇORBA KYMALI YEŞİL MERCİMEK
JOLETT CORRIN LI JURIC FRAUNT S. FIRIND, PILVIN IRIS JERNI LI JURIC FRAUNT 1802/1004 1004/1004 1	2009/2004 MSTR CORBA MSTRICKN KOTTE (SERZE HAŞLIMAN) BULGUR PILMI PORTAMAL VESAN SIZZILYE 2009/2004 MANTAR CORBA TAUMUL BULGU KERAP KAŞARIL ERRYTE VOGURT	29020204 WILA CORRA ETTROL ETTROL MEVSIN SALATA MORALL SEKTROME VERNALICIANTE (DOMETES BIBER) ZWOZZAŁ TAREMA CORRA KORI SOSIU MOTE SPAGETTI MPOLITIN KWISIN SALATA	201021024 MERCHUS CORRA SEZELLI TWALK APPA GERRÄTE PLAN AVFONA 1970AU VESNA1970AU ZERNA1970A	PRANAS CORRA FORMAT TORIO FOR POR PROPERTY OF THE PROPERTY OF	ROMEN (ORBA. ROMEN (ORBA. PILIS BETWANI KARSIK SALATA TIRAMISI VEGAN FIRIN PATATES BOFOLCE (ORBA. KISHT EREAP KASPALL CEVIZJ ERISTE POTTAVUL.	BROKCLI CORBH TERBYELL KÖFTE FES. SOSLL MWARPA ELMA VESANBEZELYE 25822004 KÜLS ÇORBA KOYMALI YEŞİL MERĞIMEK SU BÖREĞİ YOĞULT
DIGHT (DRIA) ILI HUR, FABILYE IS, RRING PILMA REGAN KURU FASILYE 19027024 ROHGUL ÇORBIA FONER PÜRE) GORÜZ SALAFA L. HABARLI GEZERYE EGAN LAMAN KOURRIA	20092004 MISR CORBA MISSIRIA KÖTET (SEEZE HAŞLAMA) BULGUR PILAN PORTAMAL VERAN SEZELYE 20092004 MANTAR CORBA TAUKUL BUGU KERAP KAŞABU ERŞET YOĞURF YOĞURF VÖĞÜRF VÖĞ VÖĞ VÖĞ VÖĞ VÖĞ VÖĞ VÖĞ VÖĞ VÖĞ VÖĞ	29020004 VYXLA ÇORBA ETTİRDİ KEVSİİN SALATA HAÇINGİ, ŞEKETANIE HAÇINGİ, ŞEKETANIE HAÇINGİ, ŞEKETANIE 19020024 TARHANA ÇORBA KORİ SOŞILI MÖTE SARGETİİ HAÇUTEN KARŞIŞ KALATA KARŞIŞ KALATA VERANİ ŞEKEZ KALATANIA (YOĞLETİ)	2002/804 MERCHINEY CORRA SERZELI TANUK ARPA SEHRİTİR ELMİ AYRAN AYRAN SEHRİTİR ELMİ AYRAN AYRAN AYRAN ESAN SENGOLLI 2002/804 CERKLEZ CORRA KYMALI ISRVANK (YOĞUFT) FIRSIN MAKVANA AMVOLÜBA AMVOLÜBA MERCAN SENGOLÜRTİ VERAN SENGOLÜRTİ	OFRANS) CORBA OFRANS) CORBA OFRANS) CORBA OFRANS) CORBA OFRANS) CORBA OFRANS) CORBA DECEMBER	ROMEN ÇORBA PIL DE DERVINI PIL DE DERVINI MARŞIK SALATA TİRAMİS J VECAN RİRIN PATATES BAGÜZÜZÜZÜ BÖĞÜLÜE ÇORBA MİBIT YETIRA MAŞIYLI CÜNZÜ ERİŞTE POĞTAVUL VECAN KARNABIYLAR	BRONCLI CORBA TRESINCI I CORBA TRESINCI I KOFTE FES. SOSIL I MAVARVA ELIAN VESAN BEZELYE SSIGNOOL KULLEY KULLE CORBA KYNALI YEŞİL MERCİMEK SI Ü GOĞÜ YÖĞÜLFT VESAN YEŞİL MERCİMEK
JOLENT COPEN JURIL FRAUNT S. RIRIN, PILVINI RIP GAN ILLE INSULYE 19020024 LINCUL COPEN LONGUL COPEN DENIZ SALAFA L. WARMALI CEZETYE GAN LAHANAN KOULIRINA GAN LAHANAN KOULIRINA	MSR CORBA MISSINK NOTE (SERZE HAŞL MAY BULGUR PILMI PORTAMA VERAN SIZELYE 2000/2024 MANITAR CORBA TYUNIGU BUGU KERIP KAŞARI ERĞITE YOĞULUR VERAN SIZELYE XAŞARI ERĞITE YOĞULUR VERAN SIZELYE VERAN SIZELYE VERAN SIZELYE VERAN SIZELYE XIZELYE	29020024 WYLA CORBA ETTIROL HOFINGUL SCHEDANIE HOFINGUL SCHEDANIE HOFINGUL SCHEDANIE Z0020024 TASHANA CORBA TASHANA CORBA WORTH SASHU MOTTE SRAGETTI NAPOJITEN VESAN SEBZE WALJEMAN (YOĞURT) VESAN SEBZE WALJEMAN (YOĞURT)	201021924 MERCHURC (ORBA) SEIZELT TYALKA ARRA SEHRÜT TYALKA ARRA SEHRÜT PILAN (YOĞURT) ZENDZIRĞE	PRANAS CORRA FORMAT TORIO FOR POR PROPERTY OF THE PROPERTY OF	ROMEN (ORBA. ROMEN (ORBA. PILIS BETWANI KARSIK SALATA TIRAMISI VEGAN FIRIN PATATES BOFOLCE (ORBA. KISHT EREAP KASPALL CEVIZJ ERISTE POTTAVUL.	BROKCLI CORBH TERBYELL KÖFTE FES. SOSLL MWARPA ELMA VESANBEZELYE 25822004 KÜLS ÇORBA KOYMALI YEŞİL MERĞIMEK SU BÖREĞİ YOĞULT
JOSEPT CORRIN TURNE, FRAULUTE S. FRINC, PILLUM SI. FRINC, PILLUM FRAULUTE THROUGH THROUGH COMMITTED FRAULUTE THROUGH COMMITTED THROUGH COM	2009/2004 MIST CORBA MISTIGNEN KOTTE (SEEZE HAŞLAMA) BULGUR PILLIN PORTAMAL VERAN 16ZELYE 2009/2004 MINITAR CORBA TAUKUJ BUGU KERAP KAŞABU ERŞTE VOĞUNE VÖĞUN TÜRÜN VERAN 2709/2004 SEEZE CORBA	29020004 VVILA ÇORBA ETTİRDİ KEVSİİN SALATA HAŞIN ŞEKETANBE LABANIÇLİK KOPTE (DOMATES BİBER) ZYODOZOL TARIHAN ÇORBA KOĞI SOŞUL WÖTTE SARGETİI NAVULTEN KANŞIŞ KALATA LABANIÇLİK ŞALATA ZYODOZOL ZYOLONIES ÇORBBA	2002/3924 MERCHINEY CORRIA SERZELI TANUK APPA SEHRİFE PLAM AYRAN AYRAN EVERNIY SENGOLLI ZERGIZ CORRIA KYRANLI ISRVANK (YOĞUTT) FIRSH MAKVARA AM-YOLU BAN YOĞUTT ZERGIN MAKVARA AM-YOLU BAN YOĞUTT ZERGIN MAKVARA AM-YOLU BAN	OFRANS) CORBA OFRANS) CORBA OFRANS) CORBA OFRANS) CORBA OFRANS) CORBA OFRANS) CORBA DECEMBER	ROMEN ÇORBA PIL DE DERVINI PIL DE DERVINI MARŞIK SALATA TİRAMİS J VECAN RİRIN PATATES BAGÜZÜZÜZÜ BÖĞÜLÜE ÇORBA MİBIT YETIRA MAŞIYLI CÜNZÜ ERİŞTE POĞTAVUL VECAN KARNABIYLAR	BRONCLI CORBA TRESINGLI KOFTE FES. SOSLI MAVARIVA ELIAA VESAN BEZELYE KULS CORBA KYNALI YEŞİL MERCİMEK SU GONCĞİ YÖĞÜLT VESAN YEŞİL MERCİMEK
JOSEPT CORRIA TO JURIAL FRAGUATE S. FIRIND, PULVII RISD SIGNI KURI PASLLYE 1802/1004 1	2009/2004 MISCRON ACTER (SEEZE HAŞLIMAN) BULGUR PILAM PORTAWAL VEGAN SEZELYE 2009/2004 MANTAR CORBA TRANCIJ BEGG KEBAP KAŞARI BEĞYE VOĞUPE VEĞAN SYTLON ZYRON/2004 SEEZE CORBA	29020024 VIVILA CORRA ETTIRIDI MINISMI SALATA HIGHINGLI SENERANIE HIGHINGLI SENERANIE ZINOZIOZIA TARINA CORRA TARINA CORRA VICTORI INFORMATI ZINOZIOZIA VICTORI INFORMATI ZINOZIOZIA VICTORI INFORMATI ZINOZIOZIA ZINOZIA	201021924 MERICHIER CORRIA SERENI TANAK SERENI TANAK ARPA SEHRÜYE PILAN ARPAN	OFRANS) CORBA OFRANS) CORBA OFRANS) CORBA OFRANS) CORBA OFRANS) CORBA OFRANS) CORBA DECEMBER	ROMEN ÇORBA PIL DE DERVINI PIL DE DERVINI MARŞIK SALATA TİRAMİS J VECAN RİRIN PATATES BAGÜZÜZÜZÜ BÖĞÜLÜE ÇORBA MİBIT YETIRA MAŞIYLI CÜNZÜ ERİŞTE POĞTAVUL VECAN KARNABIYLAR	BRONCLI CORBA TRESINCI I CORBA TRESINCI I KOFTE FES. SOSIL I MAVARVA ELIAN VESAN BEZELYE SSIGNOOL KULLEY KULLE CORBA KYNALI YEŞİL MERCİMEK SI Ü GOĞÜ YÖĞÜLFT VESAN YEŞİL MERCİMEK
JOART CORBN TURNE, FRAULYE S. FRINC, PILAVI S. FRINC, PILAVI S. FRINC, PILAVI SCHAN KURLI FASLLYE TANGERGE TANGERGE GENER GENE	20092004 MSCRICK NOTE (SEEZE HASLAMA) BUGGIR PLAN PORTAMAL PORTAMAL VERAN SEZELYE 20092004 MANTAR COSBA TAUKUJ BUGJI KEDAP KASARI ERFET YOĞURF YOĞURF VERAN SEZELYE 20092004 MI ETÜ NO TÜLCM SEZEZ CORBA MI ETÜ NO FÜLF	29020004 VYVLA ÇORBA ETTİRDİ KEYSİN SALATA HAÇINGI ŞEKETANBE LAÇBANİÇLİ KÜÇTE (DOMATES BİBER) 29020004 TARHANA ÇORBA KORİ SOSUL MÖTTE SANGETİ İNDOLİTEN KANŞIŞ SALATA 20020004 DELAMI ŞEÇERE MALURMA (YOĞURT) ZÜRAN ŞEREZE MALURMA (YOĞURT) PIRAN YALIÇ ÇOLBAN İNDÜLÜNLÜ KANŞIŞ KALATA DELAMI ŞEÇEZE MALURMA (YOĞURT) PIRAN YALIÇ ÇORBA DELAMI ŞEÇEŞ KANLINA (YOĞURT) ROMATEŞ ÇORBA	2002/3944 MESCHIECK CORRA SERZELI TANUK ARPA SEHRİFE PLAM AVTAN AVTAN VESAN SIRKİÇE LIM VESAN SIRKİÇE ERREZ CORSA KOMALI SERVAN (YOĞUFT) FIRSIN MAVANA AM-YONLINA MAYDALINA MAY	OFRANS) CORBA OFRANS) CORBA OFRANS) CORBA OFRANS) CORBA OFRANS) CORBA OFRANS) CORBA DECEMBER	ROMEN ÇORBA PIL DE DERVINI PIL DE DERVINI MARŞIK SALATA TİRAMİS J VECAN RİRIN PATATES BAGÜZÜZÜZÜ BÖĞÜLÜE ÇORBA MİBIT YETIRA MAŞIYLI CÜNZÜ ERİŞTE POĞTAVUL VECAN KARNABIYLAR	BRONCLI CORBA TRESINGLI KOFTE FES. SOSLI MAVARIVA ELIAA VESAN BEZELYE KULS CORBA KYNALI YEŞİL MERCİMEK SU GONCĞİ YÖĞÜLT VESAN YEŞİL MERCİMEK
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Figure 11: Menu image before processing

	_		MEF	RKEZ - DO	ĞU KAM	IPÜS GÜN	LÜK SATIS	BİLGİLE	RÍ			
					MARM	ARA RESTO	RAN					
TARİH	SABAH	KAHVALTI	FİX	KUMANYA	FİX	KUMANYA	FİKS	SEÇMELİ	SEÇMELİ	SEÇMELİ	TOPLAM	TOPLAM
IANIII	KAHVALTI	TOPLAM	ÖĞLE	ÖĞLE	AKŞAM	AKŞAM	TOPLAM	ÖĞLE	AKŞAM	TOPLAM	(Ana Yemek)	KUVER
1/1/2024	9	9	182	0	199	0	381	32	216	248	629	63
1/2/2024	28	28	640	3	469	0	1112	78	82	160	1272	130
1/3/2024	20	20	340	5	531	0	876	273	120	393	1269	128
1/4/2024	21	21	415	7	202	0	624	107	142	249	873	89
1/5/2024	20	20	406	9	334	0	749	92	33	125	874	89
1/6/2024	10	10	94	0	185	0	279	95	22	117	396	40
1/7/2024	8	8	110	0	120	0	230	19	31	50	280	28
1/8/2024	11	11	153	3	130	1	287	128	27	155	442	45
1/9/2024	4	4	271	2	114	0	387	53	32	85	472	47
1/10/2024	5	5	190	3	59	0	252	58	53	111	363	36
1/11/2024	3	3	116	0	98	0	214	159	17	176	390	39
1/12/2024	8	8	169	5	67	1	242	56	23	79	321	32
1/13/2024	5	5	31	0	35	0	66	20	7	27	93	9
1/14/2024	3	3	37	0	64	2	103	12	6	18	121	12
1/15/2024	2	2	808	3	62	0	873	60	18	78	951	95
1/16/2024	2	2	707	3	119	1	830	84	2	86	916	91
1/17/2024	4	4	765	4	49	0	818	63	38	101	919	92
1/18/2024	4	4	725	0	92	2	819	94	12	106	925	92
1/19/2024	1	1	184	4	76	2	266	41	5	46	312	31
1/20/2024	4	4	34	4	20	0	58	12	17	29	87	9
1/21/2024	3	3	35	0	55	0	90	5	1	6	96	9
1/22/2024	2	2	93	3	116	3	215	112	11	123	338	34
1/23/2024	1	1	169	14	113	0	296	53	9	62	358	35
1/24/2024	9	9	148	8	92	0	248	71	18	89	337	34
1/25/2024	1	1	186	0	124	1	311	97	9	106	417	41
1/26/2024	5	5	150	3	156	0	309	128	17	145	454	45
1/27/2024	2	2	114	0	151	0	265	14	9	23	288	29
1/28/2024	6	6	149	0	155	0	304	10	84	94	398	40
1/29/2024	41	41	1514	1	817	0	2332	215	56	271	2603	264
1/30/2024	43	43	888	2	661	0	1551	507	93	600	2151	219
1/31/2024	37	37	1525	29	763	1	2318	97	78	175	2493	253
TOPLAMLAR	322	322	9	115	6228	14	17705	2845	1288	4133	21838	22160

Figure 12: Sale image before processing

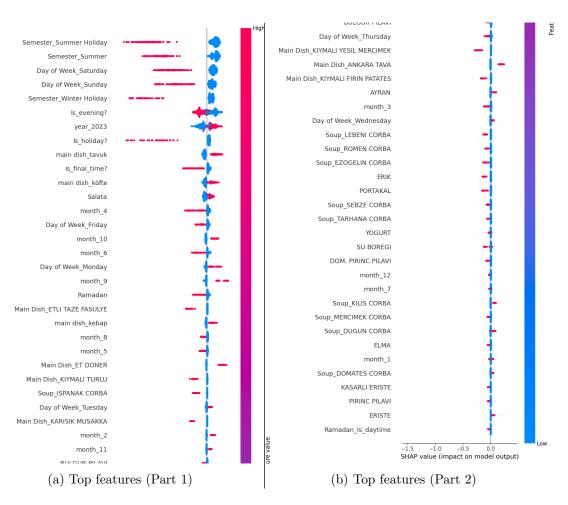


Figure 13: SHAP feature importance divided into two parts for readability