

PRESENTATION ON INDIAN CUSINE





AGENDA

- Introduction
- System design
- Implementation
- conclusion

INTRODUCTION

EDA ON INDIAN CUSINE:

- Business understanding
- Data collection
- Data cleaning
- Exploratory data analysis (EDA)
- Data visualization
- Outcomes and conclusion



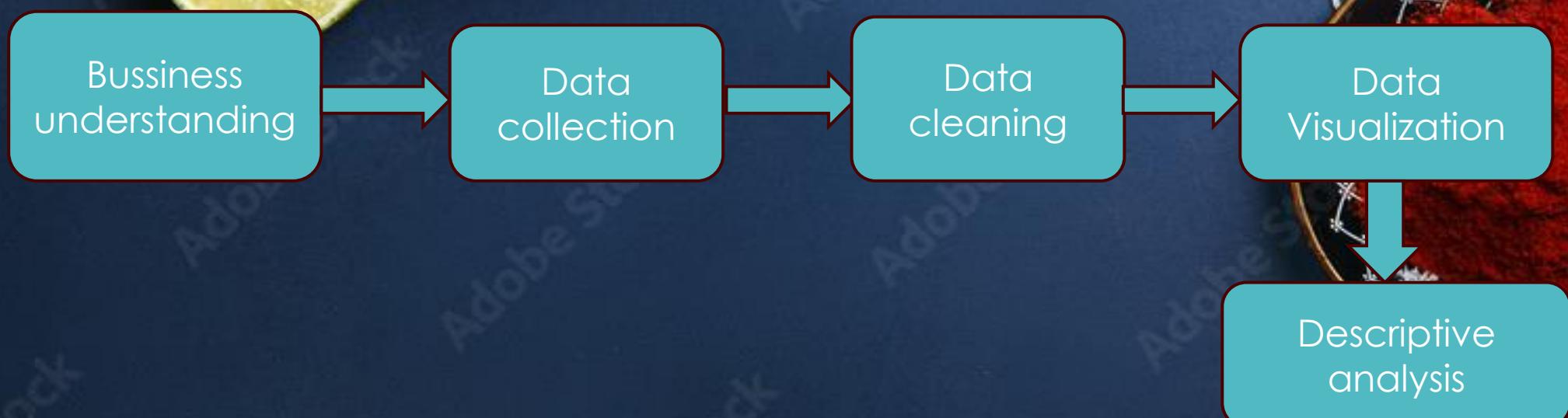
ANALYSIS ON DATA SET

- Here in indian cusine data set we have 9 columns they are :

- Name**
- Ingredients**
- Diet**
- Preparation Time**
- Cook time**
- Flavour**
- Course**
- State**
- Region**



Block diagram:



IMPLEMENTATION

Importing and extracting the data set using
dm=pd.read_csv("url of path of the Indian cusine")

Let us read the data from the csv file

```
In [4]: ID=pd.read_csv("E:\IC.csv")
In [3]: ID
Out[3]:
```

	name	ingredients	diet	prep_time	cook_time	flavor_profile	course	state	region
0	Balu shahi	Maida flour, yogurt, oil, sugar	vegetarian	45	25	sweet	dessert	West Bengal	East
1	Boondi	Gram flour, ghee, sugar	vegetarian	80	30	sweet	dessert	Rajasthan	West
2	Gajar ka halwa	Carrots, milk, sugar, ghee, cashews, raisins	vegetarian	15	60	sweet	dessert	Punjab	North
3	Ghevar	Flour, ghee, kewra, milk, clarified butter, su...	vegetarian	15	30	sweet	dessert	Rajasthan	West
4	Gulab jamun	Milk powder, plain flour, baking powder, ghee,...	vegetarian	15	40	sweet	dessert	West Bengal	East
...
237	Til Pitha	Glutinous rice, black sesame seeds, gur	vegetarian	5	30	sweet	dessert	Assam	North East
238	Bebinca	Coconut milk, egg yolks, clarified butter, all...	vegetarian	20	60	sweet	dessert	Goa	West
239	Shufta	Cottage cheese, dry dates, dried rose petals, ...	vegetarian	-1	-1	sweet	dessert	Jammu & Kashmir	North
240	Mawa Bati	Milk powder, dry fruits, arrowroot powder, all...	vegetarian	20	45	sweet	dessert	Madhya Pradesh	Central
241	Pinaca	Brown rice, fennel seeds, grated coconut, blac...	vegetarian	-1	-1	sweet	dessert	Goa	West

242 rows × 9 columns

We will print top few rows to understand about the various data columns

`mv.tail()`: it will fetch the last 5 rows of the data by default

We will print top few rows to understand about the various data columns

In [7]: `ID.head()`

Out[7]:

	name	ingredients	diet	prep_time	cook_time	flavor_profile	course	state	region
0	Balu shahi	Maida flour, yogurt, oil, sugar	vegetarian	45	25	sweet	dessert	West Bengal	East
1	Boondi	Gram flour, ghee, sugar	vegetarian	80	30	sweet	dessert	Rajasthan	West
2	Gajar ka halwa	Carrots, milk, sugar, ghee, cashews, raisins	vegetarian	15	60	sweet	dessert	Punjab	North
3	Ghevar	Flour, ghee, kewra, milk, clarified butter, su...	vegetarian	15	30	sweet	dessert	Rajasthan	West
4	Gulab jamun	Milk powder, plain flour, baking powder, ghee,...	vegetarian	15	40	sweet	dessert	West Bengal	East

DATA CLEANING

HERE IN DATA SET THERE SOME NULL VALUE USING DROP WE ARE CLEANING THE DATA SET:

Let us check for any missing values

In [11]: ID.isnull().sum()

Out[11]:

name	0
ingredients	0
diet	0
prep_time	0
cook_time	0
flavor_profile	0
course	0
state	0
region	1
dtype: int64	

Here we observed that their is null value is present in the data set

In [12]: ID['region'].unique()

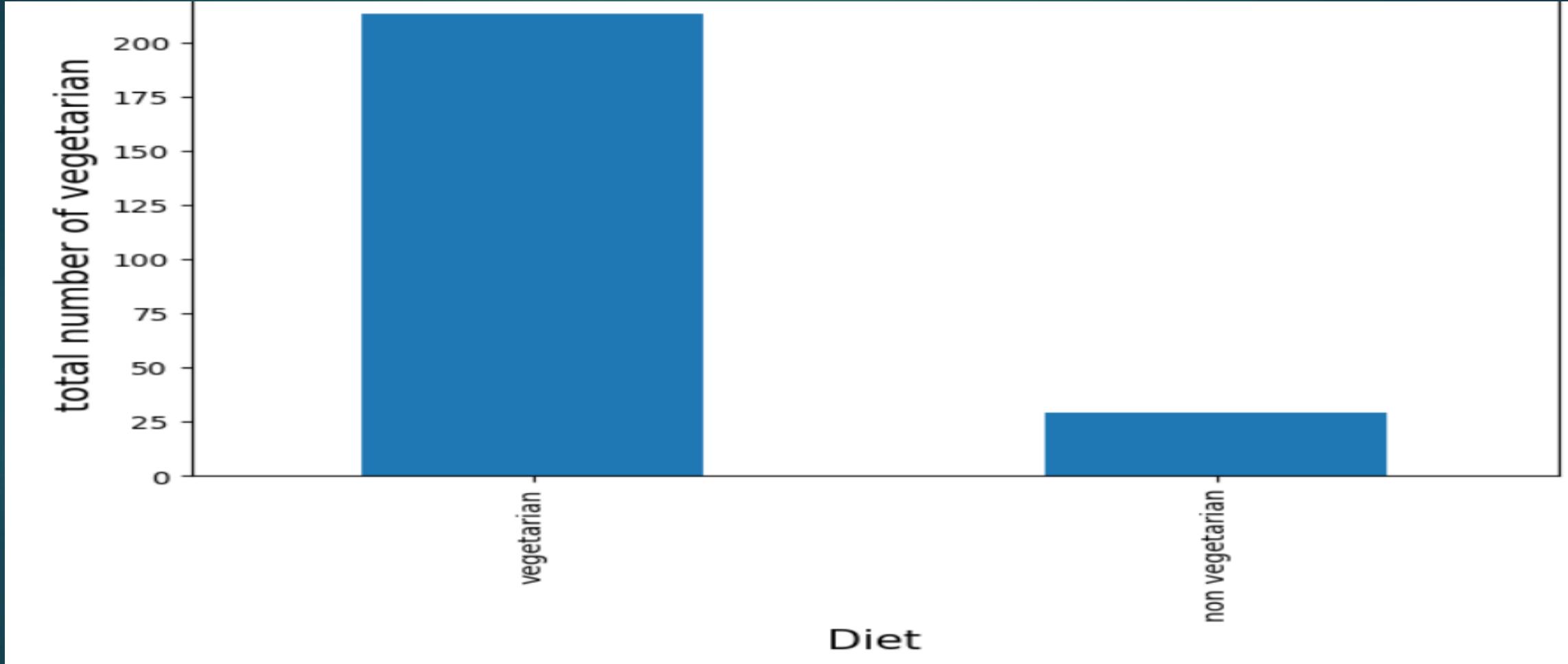
Out[12]: array(['East', 'West', 'North', 'North East', 'South', 'Central', nan],
dtype=object)

In [13]: ID.drop(ID[ID.region.isnull()].index,inplace=True)

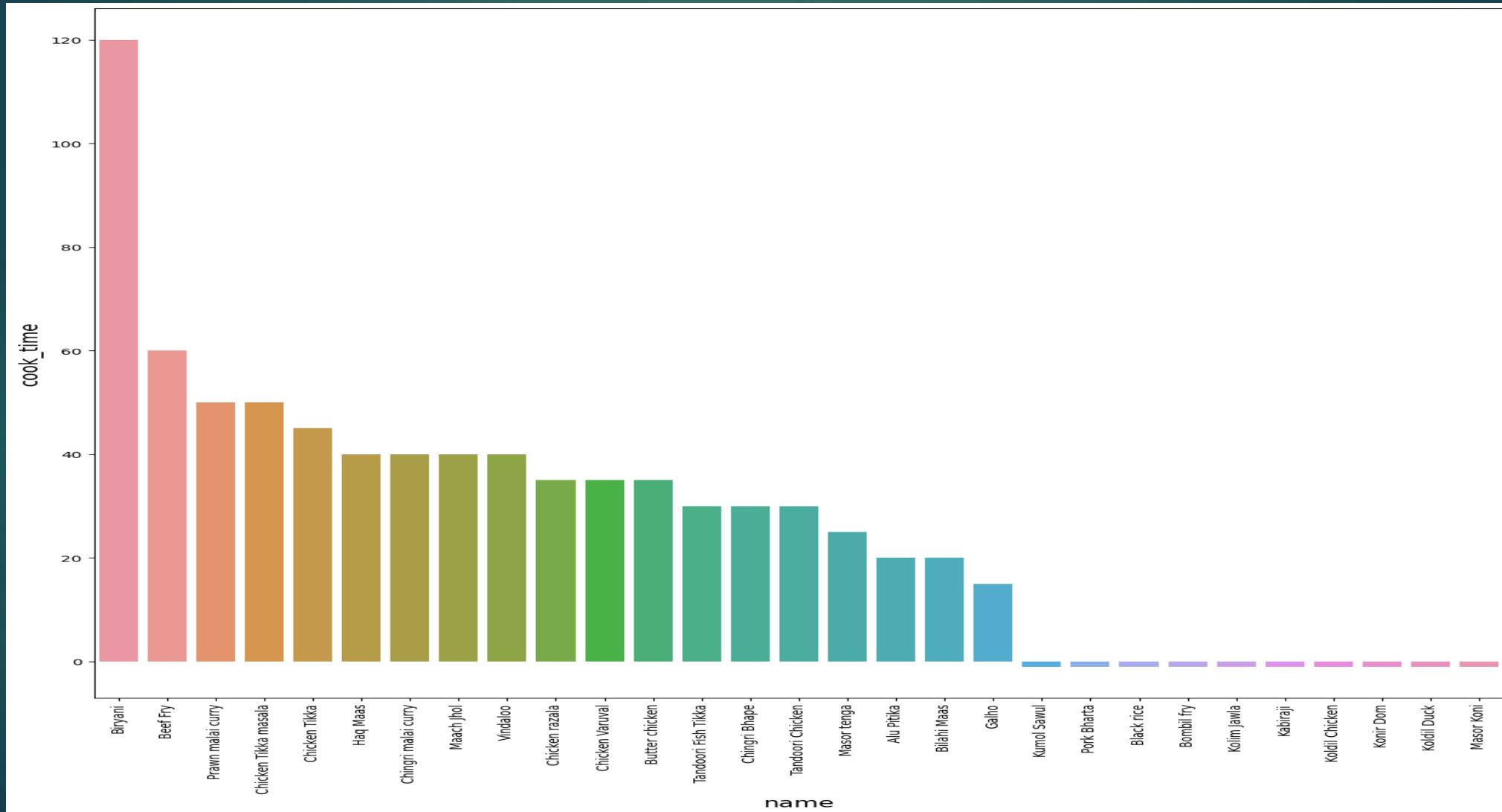
In [14]: ID['region'].unique()

Out[14]: array(['East', 'West', 'North', 'North East', 'South', 'Central'],
dtype=object)

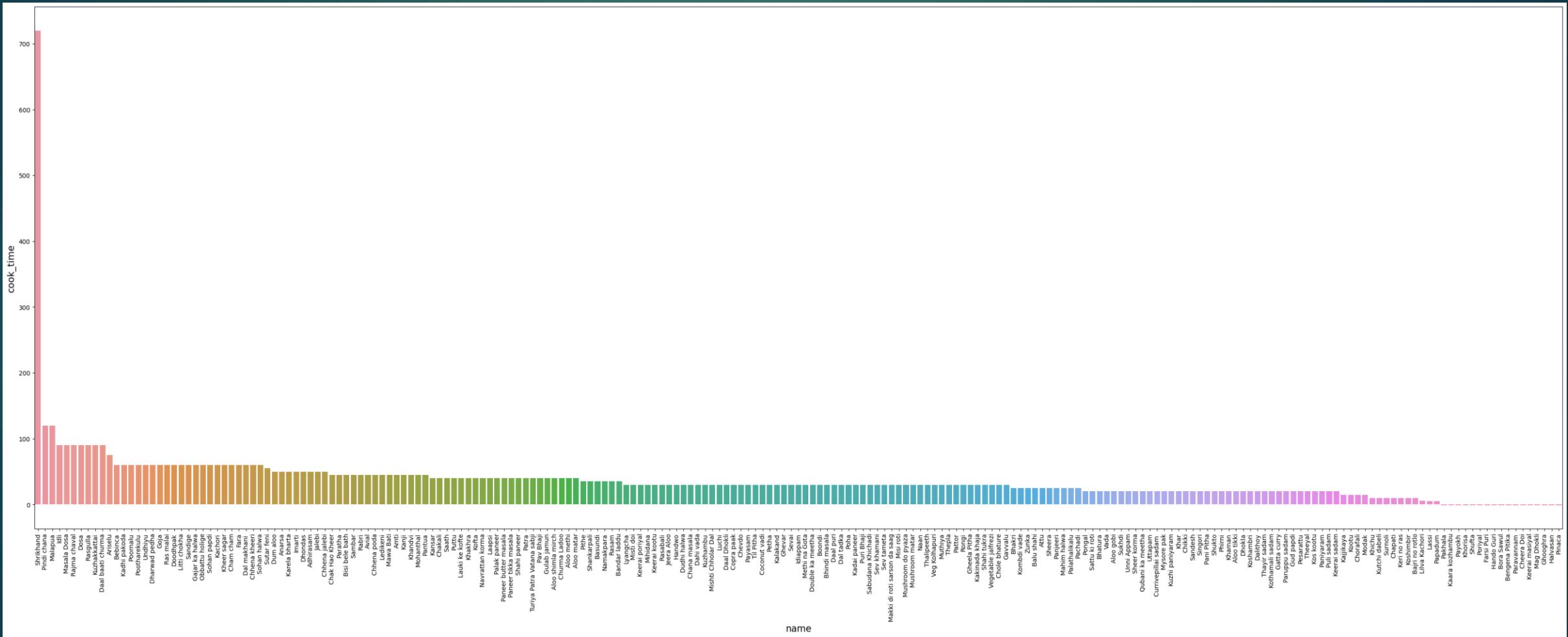
1. Total number of vegetarian and non-vegetarian dishes



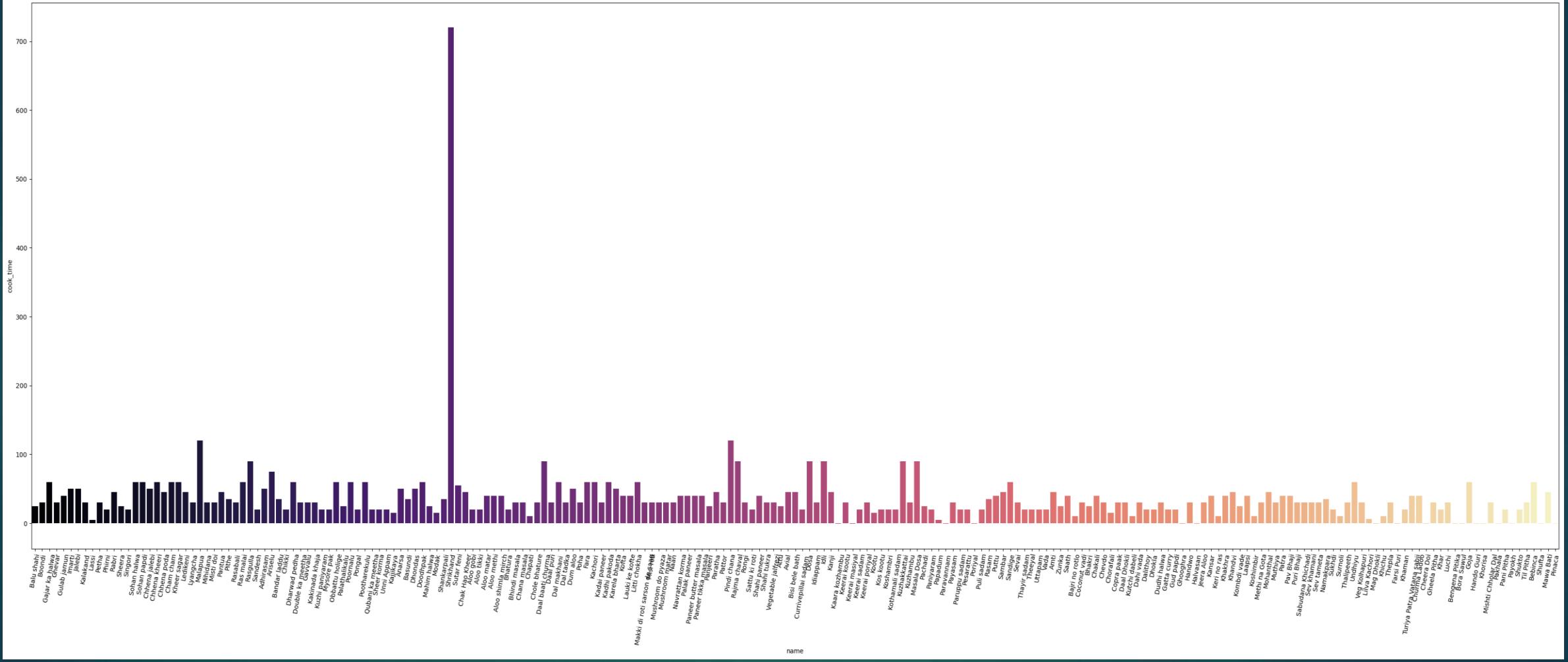
2. ABOUT NON-VEGETARIAN ITEMS



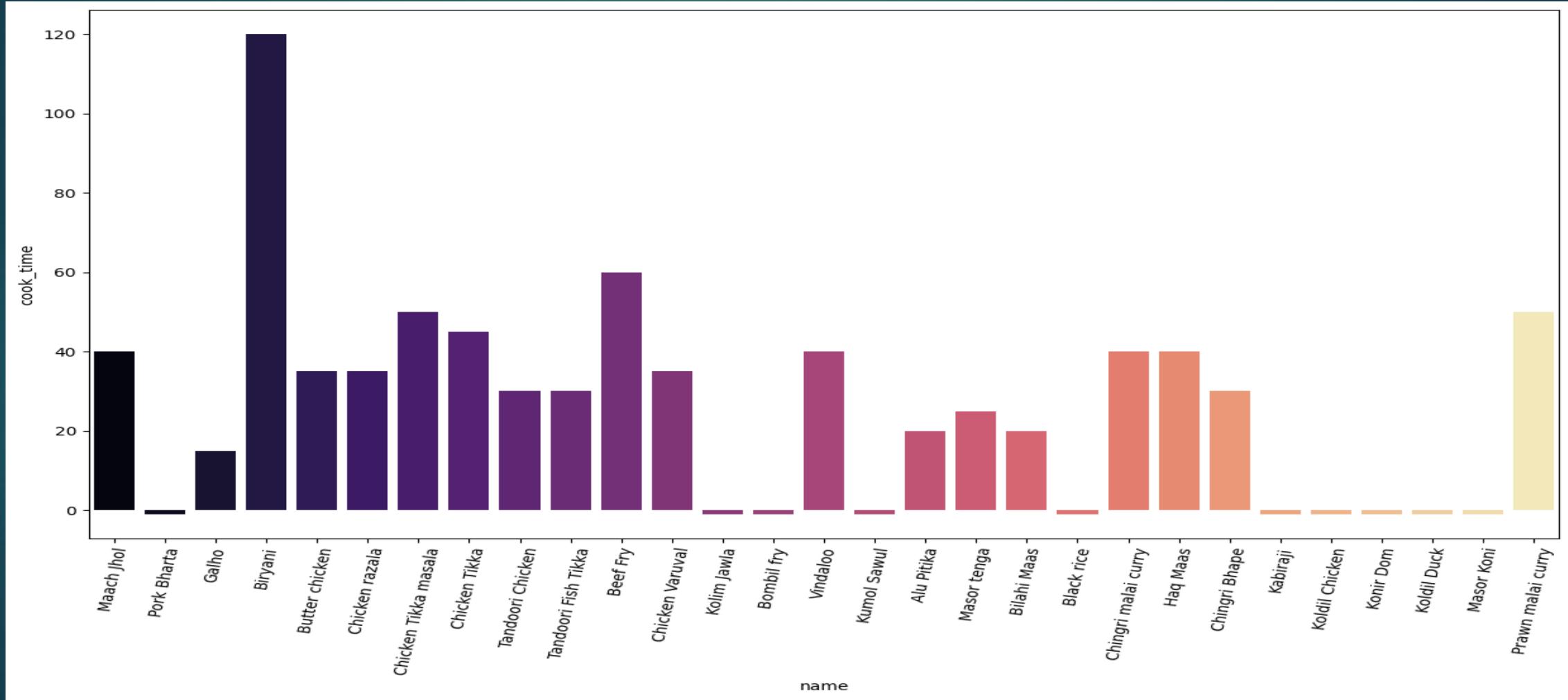
3. About vegetarian items



4. TIME TAKEN TO COOK VEG

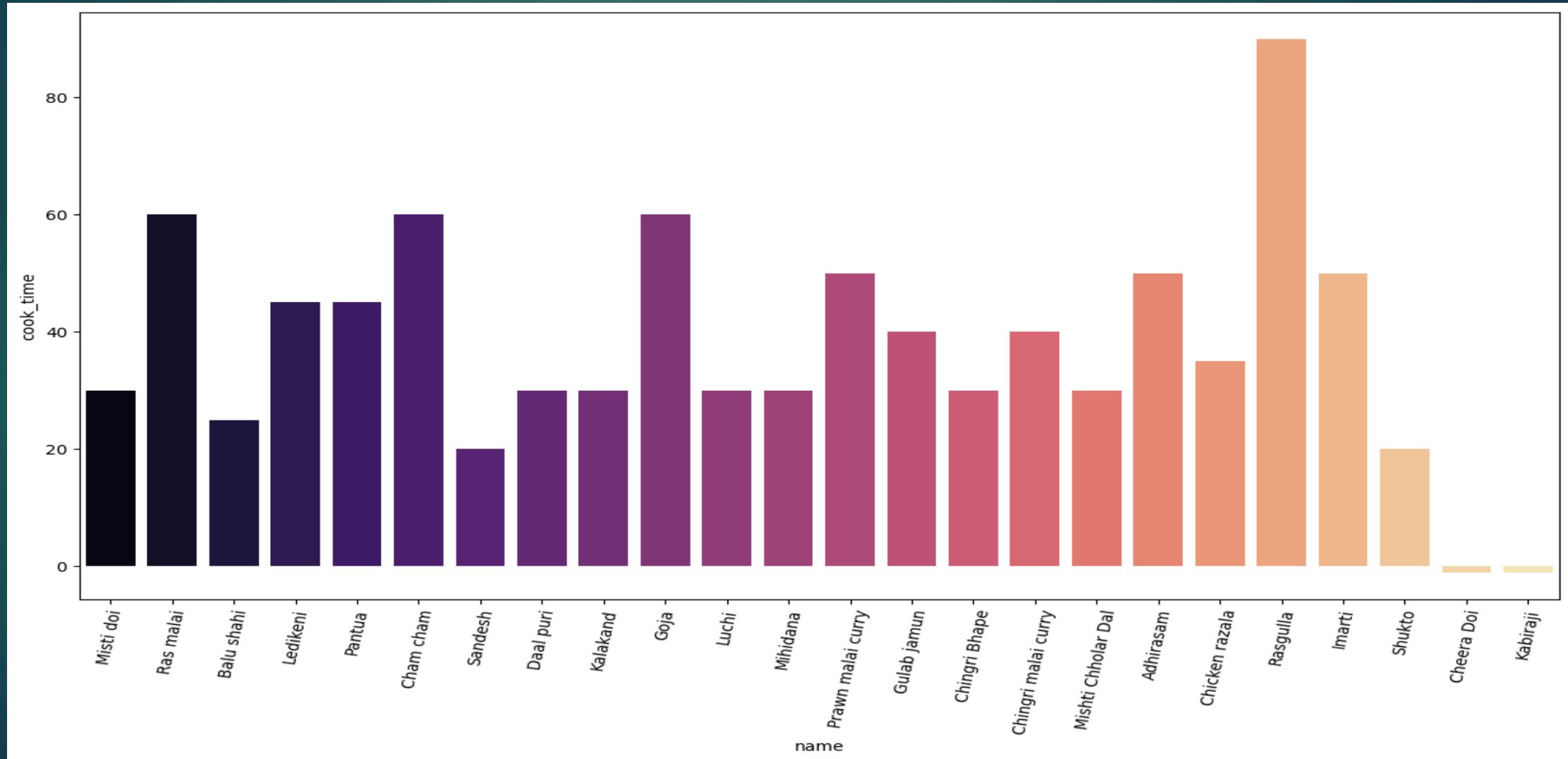


5. TIME TAKEN TO COOK NON_VEG



6. DISHES AVAILABLE IN PARTICULAR STATE

These are the dishes present in WEST BENGAL



7. WHICH NON-VEGETARIAN DISHES ARE AVAILABLE AT PARTICULAR STATE

```
In [46]: TN=nv1[['name','state','cook_time','region']]
```

```
TN_df=nv1.state=="Tamil Nadu"
```

```
In [48]: TN1=TN[TN_df]
```

```
TN1_df=TN1.sort_values(by=['cook_time'],ascending=False)
```

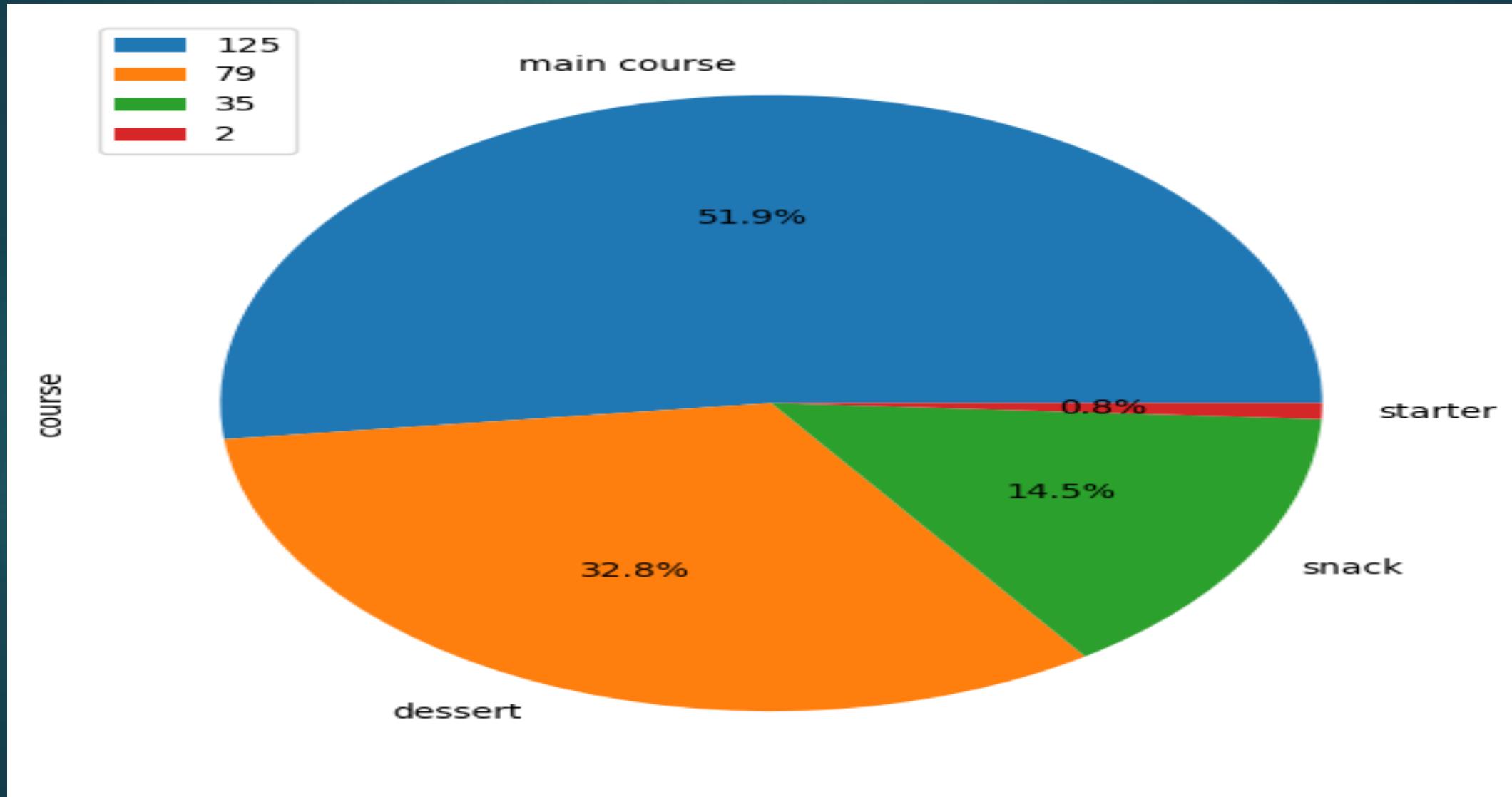
```
TN1_df
```

Out[48]:

	name	state	cook_time	region
153	Chicken Varuval	Tamil Nadu	35	South

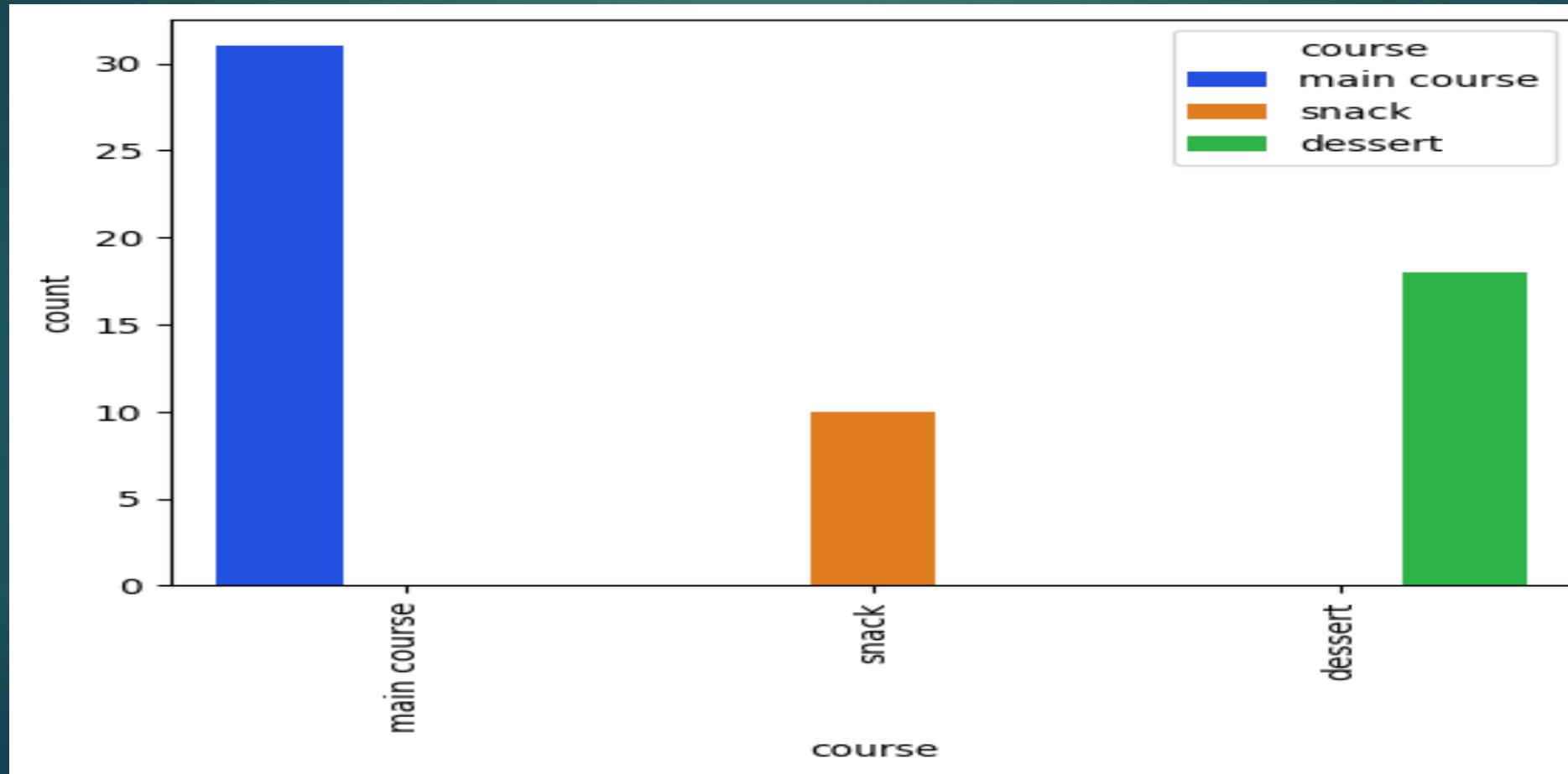
This show the particular non-veg dish that are present in tamil nadu

8. MAIN COURSE



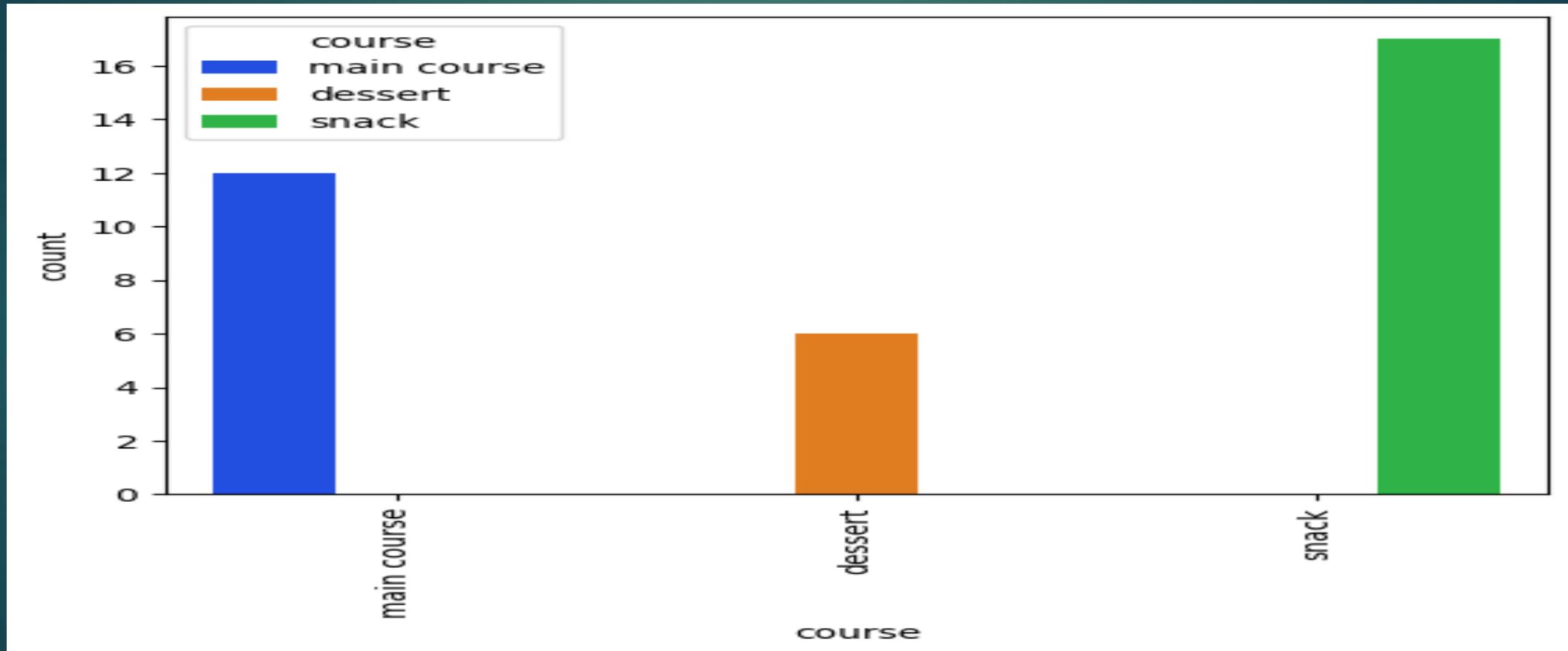
9. COURSE THAT ARE PRESENT IN PARTICULAR REGION.

COURSE THAT ARE PRESENT IN SOUTH REGION.

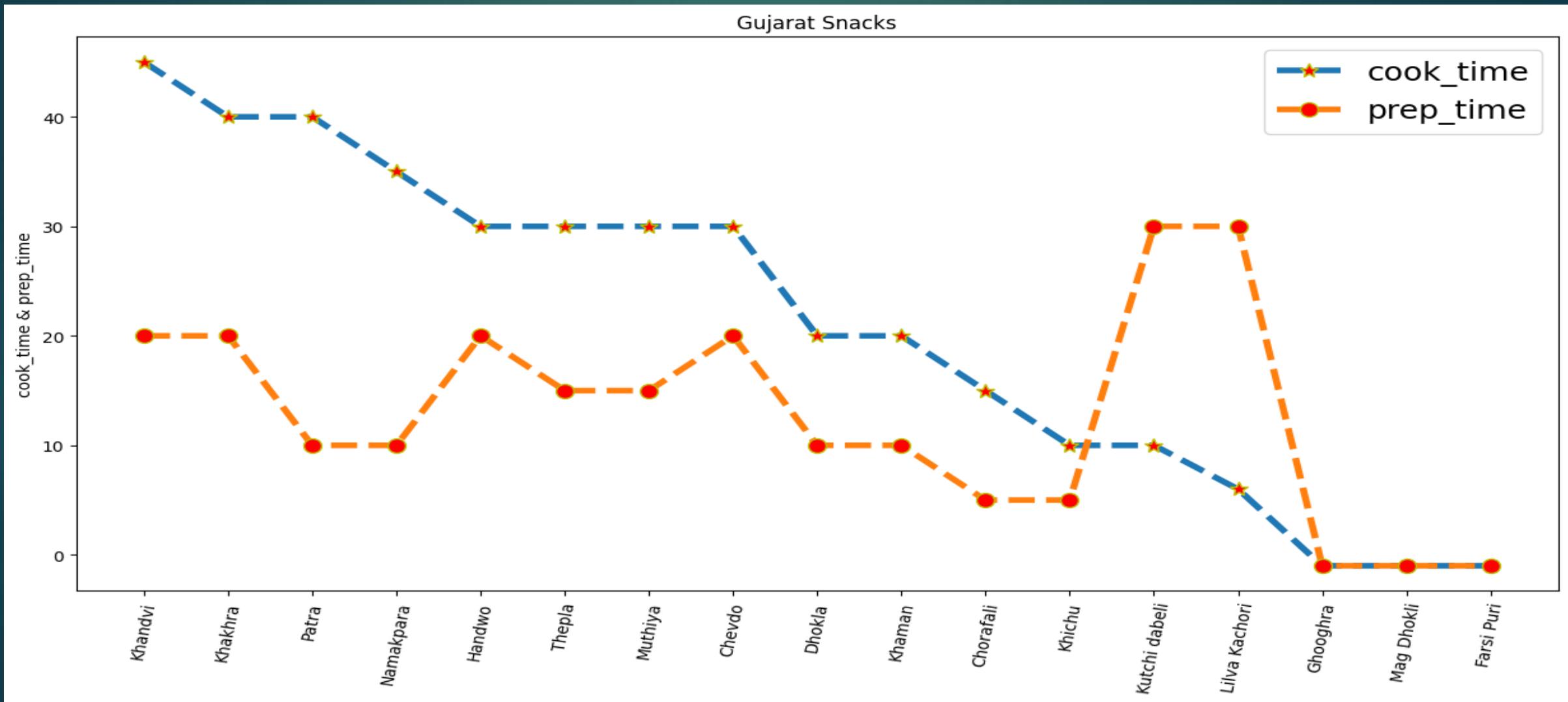


10.COURSE THAT ARE PRESENT IN PARTICULAR STATE.

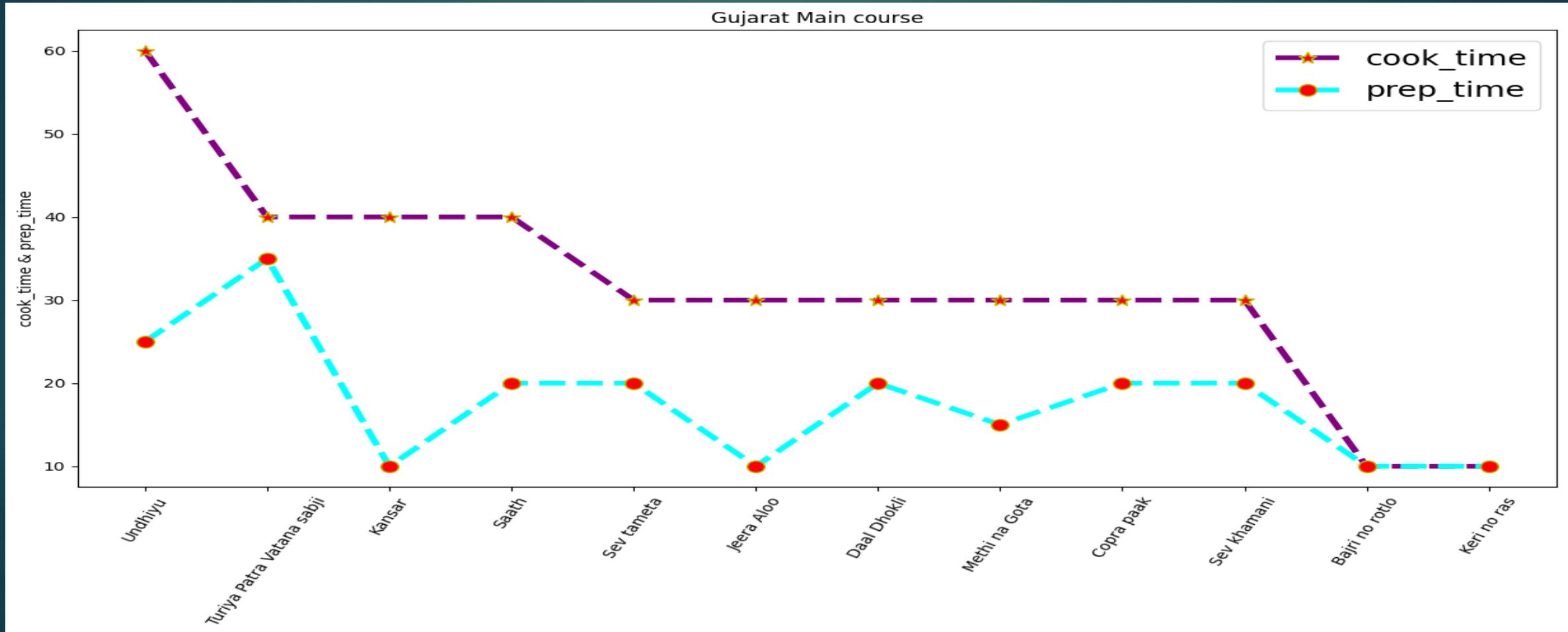
GUJARAT



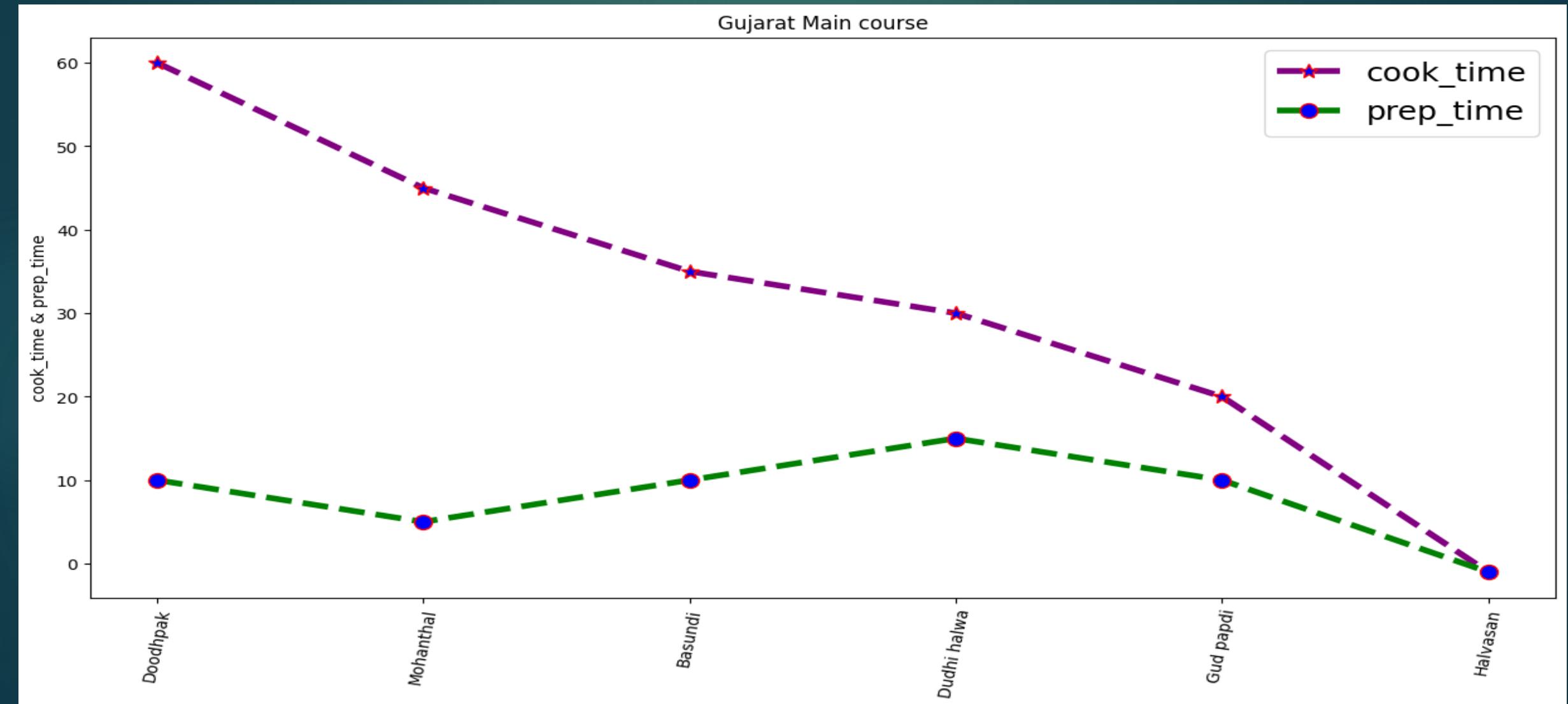
11.PREAPARTION AND COOKING TIME FOR COURSE IN PARTICULAR STATE:(GUJARAT SNACKS)



12.PREAPARTION AND COOKING TIME FOR COURSE IN PARTICULAR STATE:(MAIN COURSE)



13. PREAPARTION AND COOKING TIME FOR COURSE IN PARTICULAR STATE:(DESSERT)





CONCLUSION

- INDIAN cuisine consist of a variety of regional and traditional cuisines native to india.
- Here we have more combination foods like veg and non-veg ,that are of different flavours,ingredients and taste.
- From the data set we can understand the dishes that are present in different state different region all over INDIA.
- Each dishes take different preparation time and cook time .
- In india we have course like dessert ,snacks,main-course(veg&non-veg),thorugh data set we can understand which all dishes present in different state,different region in india.
- These data set gives the information about different dishes that are present in india.

THANK YOU

