	<pre>from plotly.offline import init_notebook_mode import matplotlib.pyplot as plt %matplotlib inline</pre>
2]:	<pre>data = pd.read_csv(r"C:\Users\Manas Ranjan Kar\Downloads\indian_food.csv")</pre>
3]: _	name ingredients diet prep_time cook_time flavor_profile course state region Balu shahi Maida flour, yogurt, oil, sugar vegetarian 45 25 sweet dessert West Bengal East 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
	Til Pitha Glutinous rice, black sesame seeds, gur vegetarian 5 30 sweet dessert Assam North East Bebinca Coconut milk, egg yolks, clarified butter, all vegetarian 20 60 sweet dessert Goa West Shufta Cottage cheese, dry dates, dried rose petals, vegetarian -1 -1 sweet dessert Jammu & Kashmir North
	Mawa Bati Milk powder, dry fruits, arrowroot powder, all vegetarian 20 45 sweet dessert Madhya Pradesh Central Pinaca Brown rice, fennel seeds, grated coconut, blac vegetarian -1 -1 sweet dessert Goa West Storows × 9 columns
]: _	data.head() name ingredients diet prep_time cook_time flavor_profile course state region
	 Balu shahi Maida flour, yogurt, oil, sugar vegetarian 45 25 sweet dessert West Bengal East Boondi Gram flour, ghee, sugar vegetarian 80 30 sweet dessert Rajasthan West Gajar ka halwa Carrots, milk, sugar, ghee, cashews, raisins vegetarian 15 60 sweet dessert Punjab North 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.columns
. [<pre>Index(['name', 'ingredients', 'diet', 'prep_time', 'cook_time',</pre>
	<pre><class 'pandas.core.frame.dataframe'=""> RangeIndex: 255 entries, 0 to 254 Data columns (total 9 columns): # Column Non-Null Count Dtype</class></pre>
	0name255 non-nullobject1ingredients255 non-nullobject2diet255 non-nullobject3prep_time255 non-nullint644cook_time255 non-nullint645flavor_profile255 non-nullobject6course255 non-nullobject
. I	7 state 255 non-null object 8 region 254 non-null object dtypes: int64(2), object(7) memory usage: 18.1+ KB
: !	data.isnull().any() name False ingredients False diet False prep_time False
	cook_time False flavor_profile False course False state False region True dtype: bool
 :	data.isnull().sum() name 0 ingredients 0 diet 0
	prep_time 0 cook_time 0 flavor_profile 0 course 0 state 0 region 1
:	data=data.replace(-1,np.nan) data=data.replace('-1',np.nan)
:	data.head() name ingredients diet prep_time cook_time flavor_profile course state region Balu shahi Maida flour, yogurt, oil, sugar vegetarian 45.0 25.0 sweet dessert West Bengal East
	Boondi Gram flour, ghee, sugar vegetarian 80.0 30.0 sweet dessert Rajasthan West Gajar ka halwa Carrots, milk, sugar, ghee, cashews, raisins vegetarian 15.0 60.0 sweet dessert Punjab North Ghevar Flour, ghee, kewra, milk, clarified butter, su vegetarian 15.0 30.0 sweet dessert Rajasthan West Gulab jamun Milk powder, plain flour, baking powder, ghee, vegetarian 15.0 40.0 sweet dessert West Bengal East
	data.isnull().sum() name 0
	ingredients 0 diet 0 prep_time 30 cook_time 28 flavor_profile 29 course 0
:	state 24 region 14 dtype: int64 data.shape
:	(255, 9) # Data Visualisation
	<pre>pie_data = data.diet.value_counts().reset_index() pie_data.columns = ['diet', 'count'] fig = px.pie(pie_data, values='count', names='diet', title='Proportion of Vegetarian and Non-Vegetarian dishes',</pre>
	<pre>color_discrete_sequence=['green', 'red']) fig.show()</pre>
	Proportion of Vegetarian and Non-Vegetarian dishes vegetarian
	11.4%
	<pre>sweet_data = data[data['flavor_profile']=='sweet'] final_sweet_data = sweet_data[sweet_data['course']!='dessert'] final_sweet_data</pre>
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