

EDS ASSIGNMENT 5

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Table:-

1	State	District	Market	Commodity	Variety	Grade	Min Price	Max Price	Modal Price
2	Andhra Pradesh	Chittoor	Chittoor	Gur(Jaggery)	NO 2	FAQ	3200	3400	3200
3	Andhra Pradesh	Chittoor	Chittoor	Mango	Neelam	Medium	700	1500	1200
4	Andhra Pradesh	Chittoor	Chittoor	Mango	Totaspuri	Medium	1400	1800	1600
5	Andhra Pradesh	Cuddapah	Cuddapah	Groundnut	Local	FAQ	4053	7583	7552
6	Andhra Pradesh	Cuddapah	Cuddapah	Turmeric	Bulb	FAQ	4778	6160	5841
7	Andhra Pradesh	Cuddapah	Cuddapah	Turmeric	Finger	FAQ	3012	6619	6175
8	Andhra Pradesh	East Godavari	Peddapuram	Paddy(Dhan)(Common)		1001 FAQ	2040	2050	2041
9	Andhra Pradesh	East Godavari	Pithapuram	Paddy(Dhan)(Common)		1001 FAQ	2040	2060	2050
10	Andhra Pradesh	East Godavari	Prattipadu	Paddy(Dhan)(Common)		1001 FAQ	2040	2060	2050
11	Andhra Pradesh	East Godavari	Sampara	Paddy(Dhan)(Common)	Swarna Masuri (New)	FAQ	2150	2200	2180
12	Andhra Pradesh	Guntur	Duggirala	Turmeric	Bulb	FAQ	5600	6300	6000
13	Andhra Pradesh	Guntur	Duggirala	Turmeric	Finger	FAQ	5725	6300	6000
14	Andhra Pradesh	Guntur	Tenali	Black Gram (Urd Beans)(Whole)	Black Gram (Whole)	FAQ	8100	8300	8200
15	Andhra Pradesh	Guntur	Tenali	Lemon	Lemon	FAQ	1000	2500	1500
16	Andhra Pradesh	Kurnool	Alur	Jowar(Sorghum)	Jowar (White)	FAQ	3020	3080	3050
17	Andhra Pradesh	Kurnool	Kurnool	Groundnut	Local	FAQ	6083	7921	7502
18	Andhra Pradesh	Vissakhapatnam	Anakapally	Gur(Jaggery)	NO 3	FAQ	3850	3950	3900
19	Chandigarh	Chandigarh	Chandigarh(Grain/Fruit)	Bottle gourd	Other	FAQ	1000	3000	2000
20	Chandigarh	Chandigarh	Chandigarh(Grain/Fruit)	Cauliflower	Other	FAQ	1000	4500	4000
21	Chandigarh	Chandigarh	Chandigarh(Grain/Fruit)	Cucumber(Kheera)	Other	FAQ	1500	2500	2000
22	Chandigarh	Chandigarh	Chandigarh(Grain/Fruit)	Green Chilli	Other	FAQ	1500	3000	2500
23	Chandigarh	Chandigarh	Chandigarh(Grain/Fruit)	Lemon	Other	FAQ	2000	3000	2600
24	Chandigarh	Chandigarh	Chandigarh(Grain/Fruit)	Mango	Other	Medium	1000	3500	3000
25	Chandigarh	Chandigarh	Chandigarh(Grain/Fruit)	Mousambi(Sweet Lime)	Other	Medium	4000	5500	5000
26	Chandigarh	Chandigarh	Chandigarh(Grain/Fruit)	Onion	Other	FAQ	700	1700	1500
27	Chandigarh	Chandigarh	Chandigarh(Grain/Fruit)	Peas Wet	Other	FAQ	1000	3500	3000
28	Chandigarh	Chandigarh	Chandigarh(Grain/Fruit)	Plum	Other	Medium	3000	6000	5000
29	Chandigarh	Chandigarh	Chandigarh(Grain/Fruit)	Pomegranate	Other	Medium	5000	12000	10000
30	Chandigarh	Chandigarh	Chandigarh(Grain/Fruit)	Potato	Other	FAQ	500	1500	1200
31	Chandigarh	Chandigarh	Chandigarh(Grain/Fruit)	Pumpkin	Other	FAQ	800	1200	1000
32	Chandigarh	Chandigarh	Chandigarh(Grain/Fruit)	Tomato	Other	FAQ	2400	8800	8000
33	Chhattisgarh	Balodabazar	Bhatgaon	Paddy(Dhan)(Common)	Paddy	FAQ	1550	1650	1600
34	Chhattisgarh	Balodabazar	Saraiwan	Paddy(Dhan)(Common)	Paddy	FAQ	1550	1650	1600
35	Chhattisgarh	Balrampur	Ramanujganj	Maize	Local	FAQ	1370	1370	1370
36	Chhattisgarh	Balrampur	Ramanujganj	Wheat	Local	FAQ	2130	2130	2130
37	Chhattisgarh	Bastar	Bastar	Maize	Other	FAQ	1600	1700	1650
38	Chhattisgarh	Bastar	Devda	Maize	Other	FAQ	1600	1700	1650
39	Chhattisgarh	Bastar	Jagdalpur	Dry Chillies	Other	FAQ	7000	7000	7000
40	Chhattisgarh	Bastar	Jaitgiri	Maize	Other	FAQ	1600	1700	1650
41	Chhattisgarh	Bastar	Lohandiguda	Maize	Other	FAQ	1600	1700	1650
42	Chhattisgarh	Bastar	Muli	Maize	Other	FAQ	1600	1700	1650
43	Chhattisgarh	Bijapur	Bharamgarh	Mahua Seed(Hippe seed)	Other	FAQ	1600	2000	1800
44	Chhattisgarh	Bijapur	Bhopalpatnam	Mahua Seed(Hippe seed)	Other	FAQ	1600	2000	1800
45	Chhattisgarh	Bijapur	Bijapur	Mahua Seed(Hippe seed)	Other	FAQ	1600	2000	1800
46	Chhattisgarh	Bilaspur	Pendraroad	Paddy(Dhan)(Common)	Other	FAQ	1500	1500	1500
47	Chhattisgarh	Dantewada	Gidam	Mahua	Other	FAQ	1500	1700	1600

54	Chattisgarh	Durg	Durg	Cabbage	Cabbage	FAQ	1500	1700	1600
55	Chattisgarh	Durg	Durg	Capicum	Capicum	FAQ	5000	5500	5250
56	Chattisgarh	Durg	Durg	Carrot	Carrot	FAQ	2800	3200	3000
57	Chattisgarh	Durg	Durg	Cauliflower	Cauliflower	FAQ	5200	5600	5400
58	Chattisgarh	Durg	Durg	Chikoo(Sapota)	Sapota	Medium	4000	6000	5000
59	Chattisgarh	Durg	Durg	Coriander(Leaves)	Coriander	FAQ	12000	14000	13000
60	Chattisgarh	Durg	Durg	Cucumber(Kheera)	Cucumber	FAQ	2000	2500	2250
61	Chattisgarh	Durg	Durg	Garlic	Average	FAQ	10000	14000	12000
62	Chattisgarh	Durg	Durg	Green Chilli	Green Chilly	FAQ	3000	11000	10000
63	Chattisgarh	Durg	Durg	Gar	Gwar	FAQ	5200	5600	5400
64	Chattisgarh	Durg	Durg	Lemon	Lemon	FAQ	4000	6000	5000
65	Chattisgarh	Durg	Durg	Little gourd (Kundru)	Little gourd (Kundru)	FAQ	3800	4000	3900
66	Chattisgarh	Durg	Durg	Mango	Badami	Medium	5000	7000	6000
67	Chattisgarh	Durg	Durg	Mousambi(Sweet Lime)	Mousambi	Medium	6000	8000	7000
68	Chattisgarh	Durg	Durg	Onion	Nasik	FAQ	1500	1700	1600
69	Chattisgarh	Durg	Durg	Papaya (Raw)	Papaya (Raw)	FAQ	1300	2000	1350
70	Chattisgarh	Durg	Durg	Pomegranate	Pomegranate	Medium	20000	24000	22000
71	Chattisgarh	Durg	Durg	Potato	Potato	FAQ	1600	1800	1700
72	Chattisgarh	Durg	Durg	Pumpkin	Pumpkin	FAQ	1200	1400	1300
73	Chattisgarh	Durg	Durg	Raddish	Raddish	FAQ	1500	1600	1550
74	Chattisgarh	Durg	Durg	Sweet Potato	Sweet Potato	FAQ	2400	2600	2500
75	Chattisgarh	Durg	Durg	Tinda	Tinda	FAQ	1600	1800	1700
76	Chattisgarh	Kanker	Chasama	Paddy(Dhan)(Common)	Other	FAQ	1380	1380	1380
77	Chattisgarh	Kanker	Lakhanpuri	Paddy(Dhan)(Common)	Other	FAQ	1380	1380	1380
78	Chattisgarh	Kanker	Narharpur	Paddy(Dhan)(Common)	Other	FAQ	1380	1380	1380
79	Chattisgarh	Koria	Baikunthpur	Kodo Millet(Varagu)	Other	FAQ	1500	1500	1500
80	Chattisgarh	Koria	Baikunthpur	Maize	Other	FAQ	1365	1365	1365
81	Chattisgarh	Koria	Baikunthpur	Paddy(Dhan)(Common)	Other	FAQ	2045	2045	2045
82	Chattisgarh	Koria	Manendragarh	Tobacco	Other	FAQ	5342	5342	5342
83	Chattisgarh	Mungeli	Lormi	Paddy(Dhan)(Common)	Paddy fine	FAQ	1600	1750	1750
84	Chattisgarh	Narayanpur	Narayanpur	Millets	Other	FAQ	3000	3800	3500
85	Chattisgarh	Raigarh	Raigarh	Onion	Other	FAQ	1800	2000	1800
86	Chattisgarh	Raigarh	Raigarh	Potato	Other	FAQ	1200	1800	1500
87	Chattisgarh	Raigarh	Raigarh	Tomato	Other	FAQ	8000	3000	8000
88	Chattisgarh	Raipur	Abhanpur	Paddy(Dhan)(Common)	I.R.-64	FAQ	1850	1850	1850
89	Goa	North Goa	Valpol	Areca nut(Betelnut/Supari)	Red	FAQ	33500	33500	33500
90	Goa	North Goa	Valpol	Areca nut(Betelnut/Supari)	Supari	FAQ	36500	36500	36500
91	Goa	North Goa	Valpol	Areca nut(Betelnut/Supari)	White	FAQ	34500	34500	34500
92	Gujarat	Amreli	Babra	Cotton	Other	FAQ	7050	7100	7075
93	Gujarat	Amreli	Babra	Groundnut	Other	FAQ	6500	6700	6600
94	Gujarat	Amreli	Bagasara	Bengal Gram(Gram)(Whole)	Average (Whole)	FAQ	4460	4535	4435
95	Gujarat	Amreli	Bagasara	Cotton	Other	FAQ	6250	6825	6535
96	Gujarat	Amreli	Bagasara	Soyabean	Yellow	FAQ	4560	4700	4630
97	Gujarat	Amreli	Bagasara	Wheat	Lokwan Gujrat	FAQ	2250	2285	2265
98	Gujarat	Amreli	Dhari	Cotton	Other	FAQ	7140	7140	7140
99	Gujarat	Amreli	Dhari	Ground Nut Seed	Ground Nut Seed	FAQ	8250	8250	8250
100	Gujarat	Amreli	Savarkundla	Raisa(Pearl Millet)(Cumbu)	Dechi	FAQ	1900	2120	2010

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import seaborn as sns
import matplotlib.pyplot as plt
import pandas as pd

# Load the CSV file into a DataFrame
df = pd.read_csv("/content/daily price.csv")

# Statement 1: Distribution of Modal Prices
sns.histplot(data=df, x='Modal Price')
plt.xlabel('Modal Price')
plt.ylabel('Count')
plt.title('Distribution of Modal Prices')
plt.show()

# Statement 2: Count of Each Commodity
sns.countplot(data=df, x='Commodity')
plt.xlabel('Commodity')
plt.ylabel('Count')
plt.title('Count of Commodities')
plt.xticks(rotation=45)
plt.show()

# Statement 3: Average Min and Max Prices by State

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sns.barplot(data=df, x='State', y='Min Price')
plt.xlabel('State')
plt.ylabel('Average Min Price')
plt.title('Average Minimum Price by State')
plt.xticks(rotation=45)
plt.show()

sns.barplot(data=df, x='State', y='Max Price')
plt.xlabel('State')
plt.ylabel('Average Max Price')
plt.title('Average Maximum Price by State')
plt.xticks(rotation=45)
plt.show()

# Statement 4: Relationship between Min Price and Max Price
sns.scatterplot(data=df, x='Min Price', y='Max Price')
plt.xlabel('Min Price')
plt.ylabel('Max Price')
plt.title('Min Price vs Max Price')
plt.show()

# Statement 5: Average Modal Price by Market
sns.barplot(data=df, x='Market', y='Modal Price')
plt.xlabel('Market')
plt.ylabel('Average Modal Price')
plt.title('Average Modal Price by Market')
plt.xticks(rotation=45)
plt.show()

# Statement 6: Modal Price Comparison across Grades
sns.boxplot(data=df, x='Grade', y='Modal Price')
plt.xlabel('Grade')
plt.ylabel('Modal Price')
plt.title('Modal Price by Grade')
plt.xticks(rotation=45)
plt.show()

# Statement 7: Modal Price Distribution for Each Variety
sns.violinplot(data=df, x='Variety', y='Modal Price')
plt.xlabel('Variety')
plt.ylabel('Modal Price')
plt.title('Modal Price Distribution by Variety')
plt.xticks(rotation=45)
plt.show()
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# Statement 8: Modal Price Trend by District
sns.lineplot(data=df, x='District', y='Modal Price')
plt.xlabel('District')
plt.ylabel('Modal Price')
plt.title('Modal Price Trend by District')
plt.xticks(rotation=45)
plt.show()

# Statement 9: Average Modal Price by Commodity
sns.barplot(data=df, x='Commodity', y='Modal Price')
plt.xlabel('Commodity')
plt.ylabel('Average Modal Price')
plt.title('Average Modal Price by Commodity')
plt.xticks(rotation=45)
plt.show()

# Statement 10: Count of Each District
sns.countplot(data=df, x='District')
plt.xlabel('District')
plt.ylabel('Count')
plt.title('Count of Districts')
plt.xticks(rotation=45)
plt.show()

# Statement 11: Modal Price Distribution by State and Market
sns.boxplot(data=df, x='State', y='Modal Price', hue='Market')
plt.xlabel('State')
plt.ylabel('Modal Price')
plt.title('Modal Price Distribution by State and Market')
plt.xticks(rotation=45)
plt.legend(title='Market')
plt.show()

# Statement 12: Modal Prices for Each Variety by Market
sns.barplot(data=df, x='Variety', y='Modal Price', hue='Market')
plt.xlabel('Variety')
plt.ylabel('Modal Price')
plt.title('Modal Price by Variety and Market')
plt.xticks(rotation=45)
plt.legend(title='Market')
plt.show()

# Statement 13: Average Modal Price by Commodity and Grade
sns.barplot(data=df, x='Commodity', y='Modal Price', hue='Grade')
plt.xlabel('Commodity')

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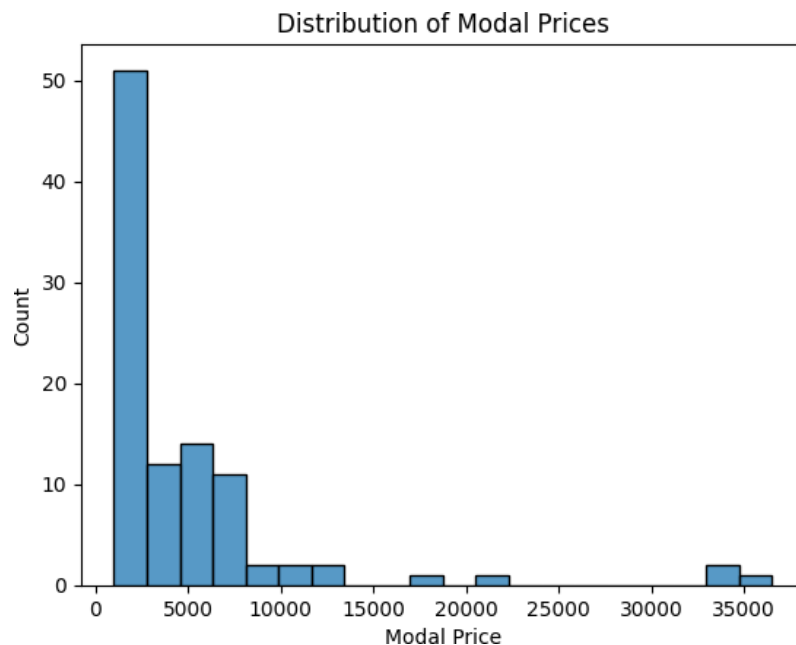
plt.ylabel('Average Modal Price')
plt.title('Average Modal Price by Commodity and Grade')
plt.xticks(rotation=45)
plt.legend(title='Grade')
plt.show()

# Statement 14: Modal Price Distribution by State and Commodity
sns.violinplot(data=df, x='State', y='Modal Price', hue='Commodity')
plt.xlabel('State')
plt.ylabel('Modal Price')
plt.title('Modal Price Distribution by State and Commodity')
plt.xticks(rotation=45)
plt.legend(title='Commodity')
plt.show()

# Statement 15: Relationship between Modal Price and Market by District
sns.scatterplot(data=df, x='Modal Price', y='Market', hue='District')
plt.xlabel('Modal Price')
plt.ylabel('Market')
plt.title('Modal Price vs Market by District')
plt.legend(title='District')
plt.show()

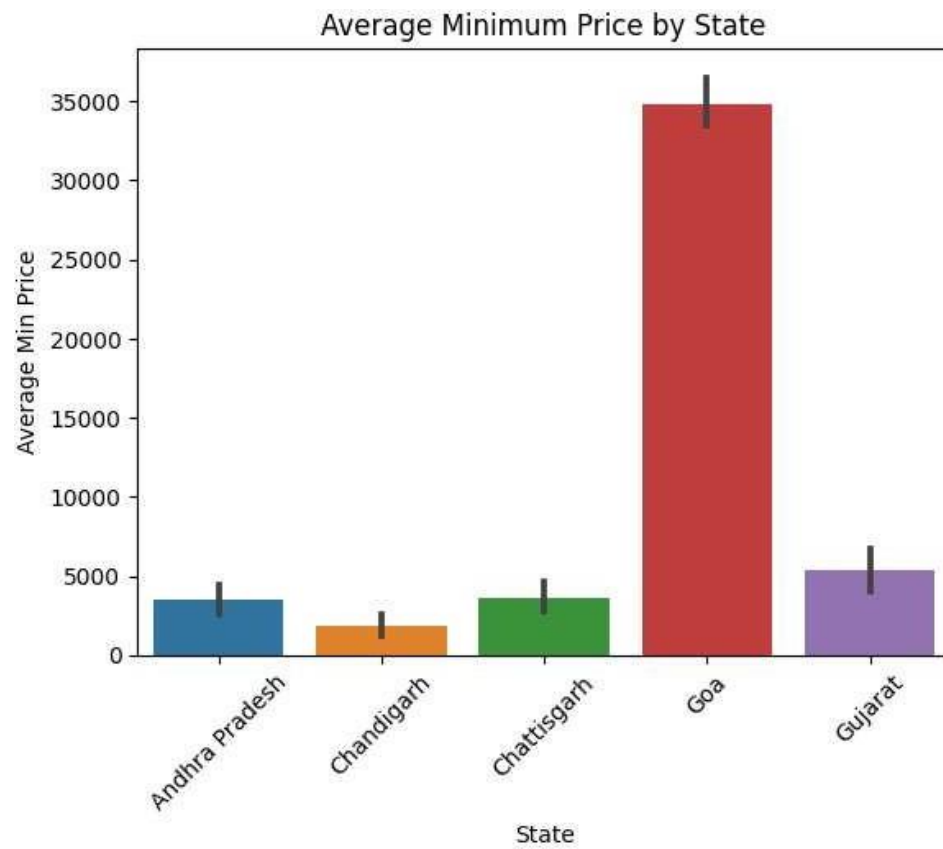
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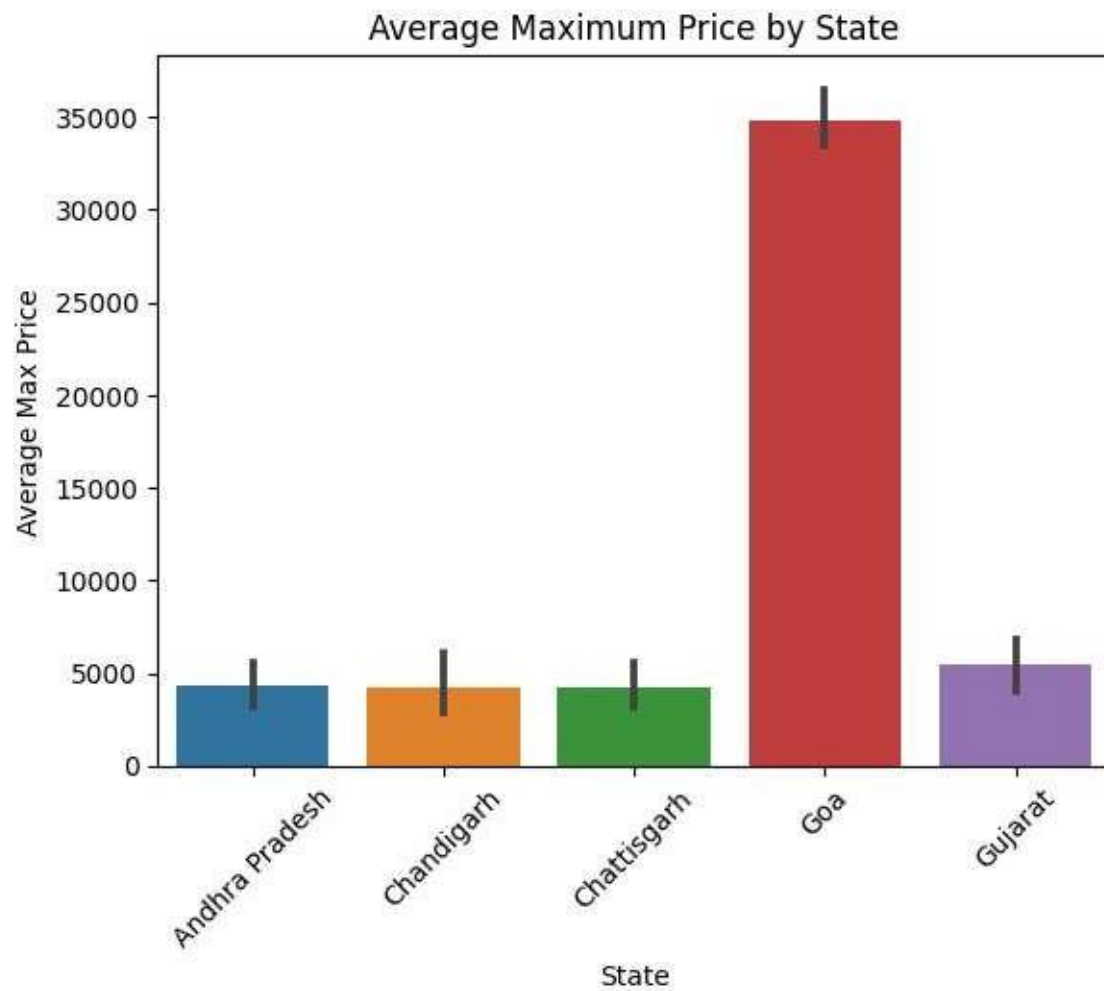
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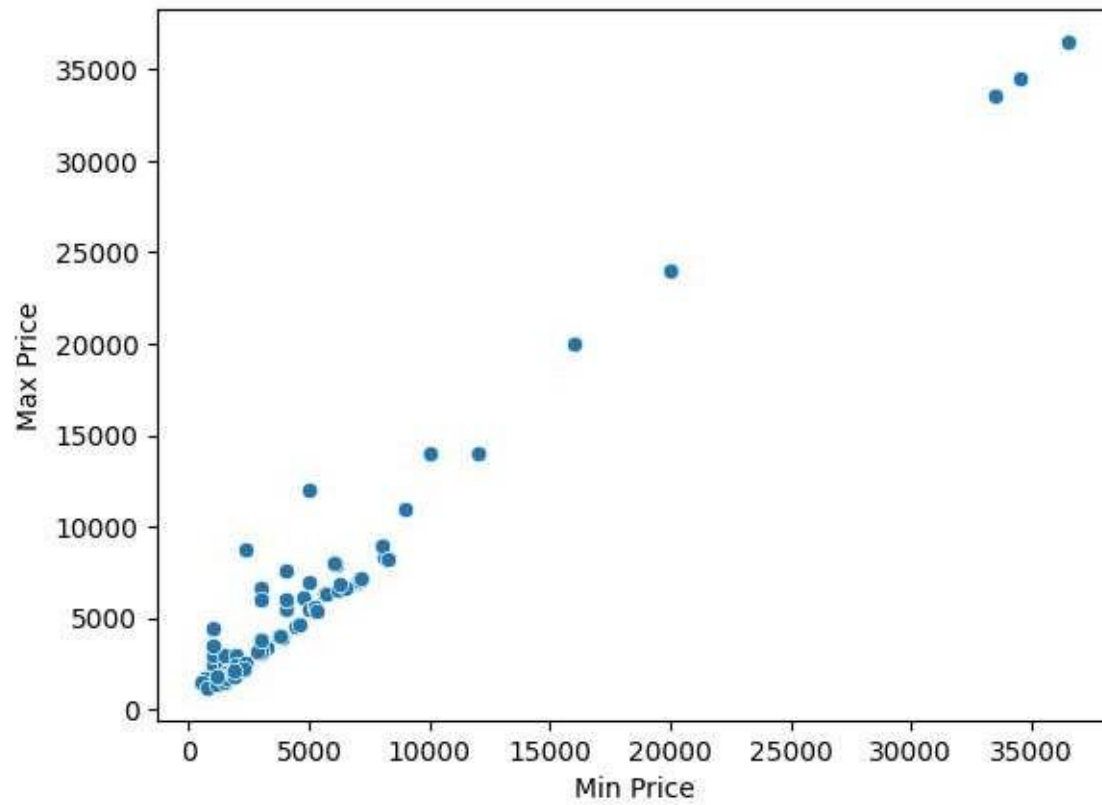
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Commodity

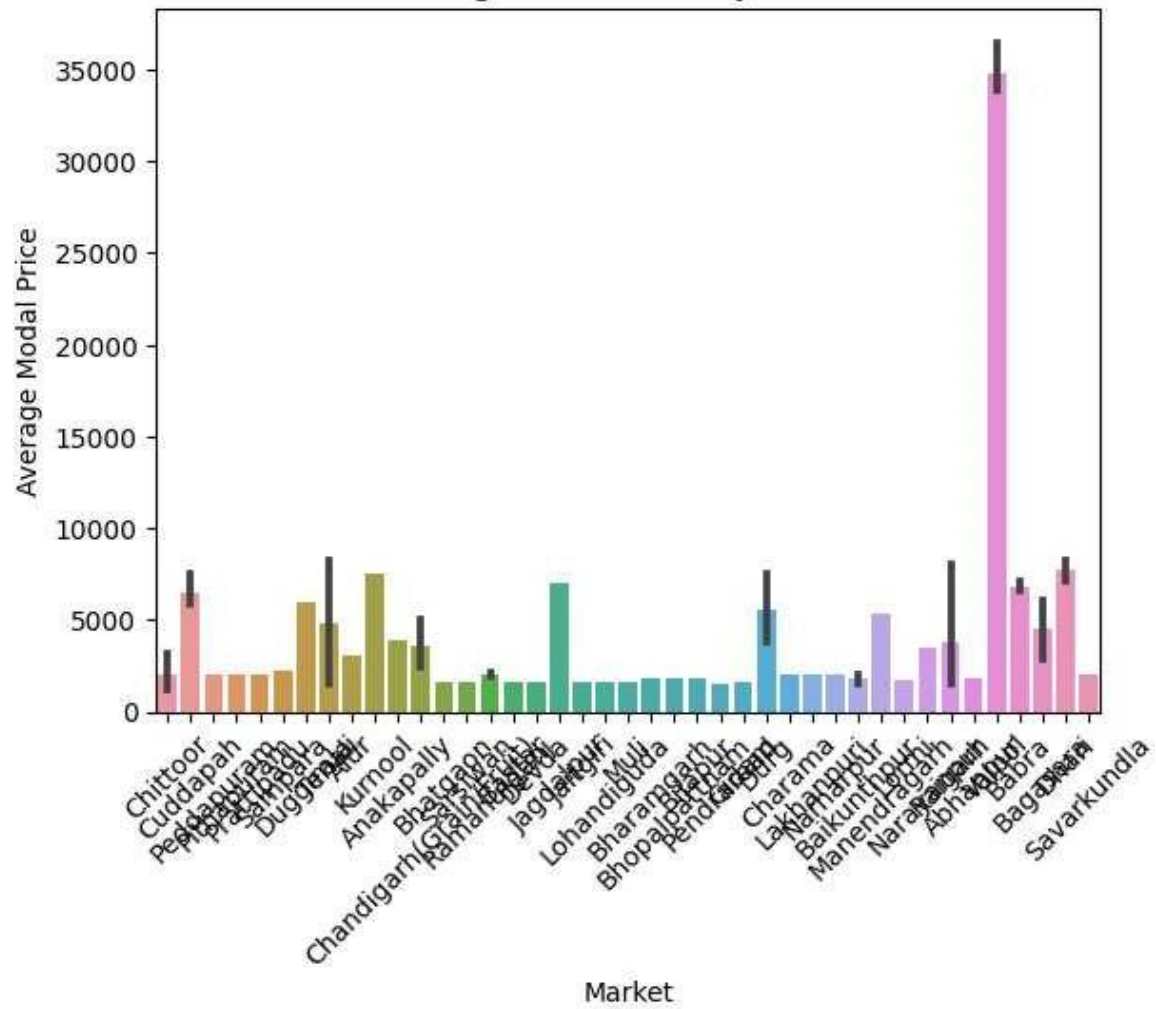


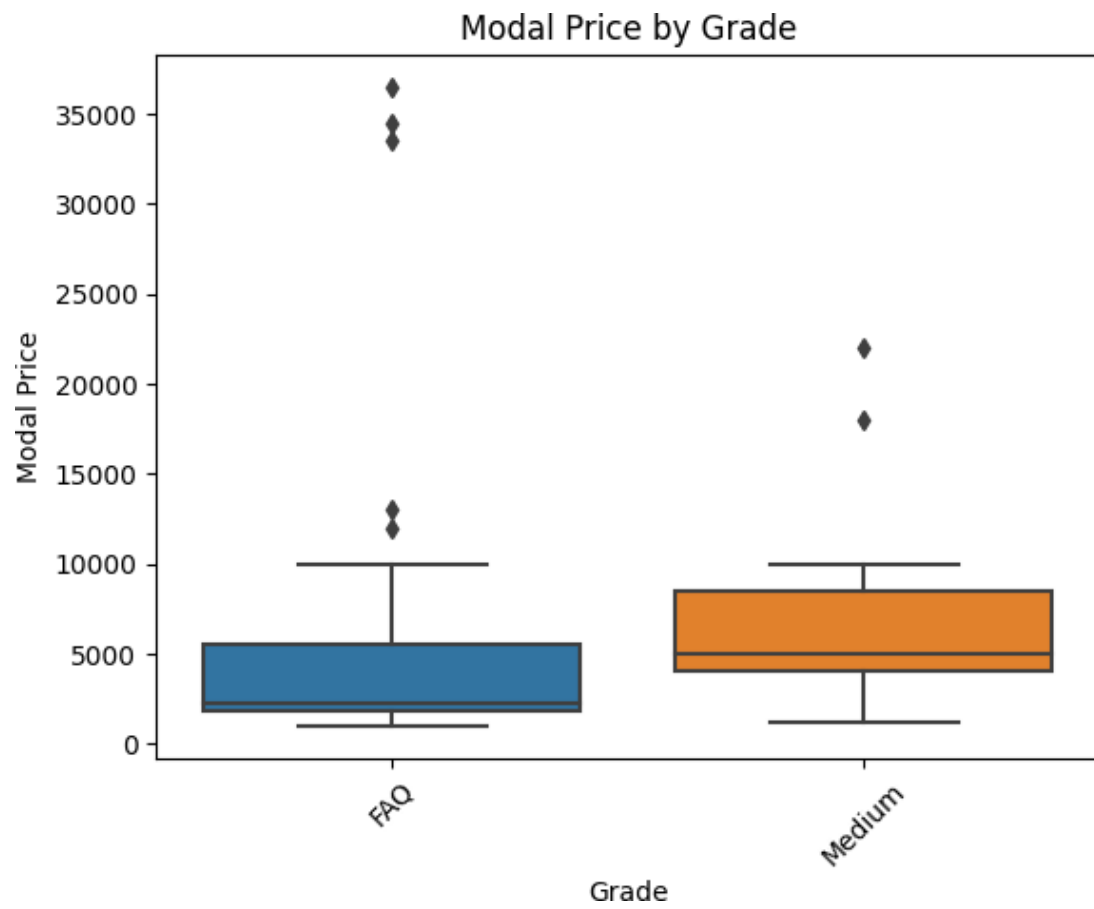


Min Price vs Max Price

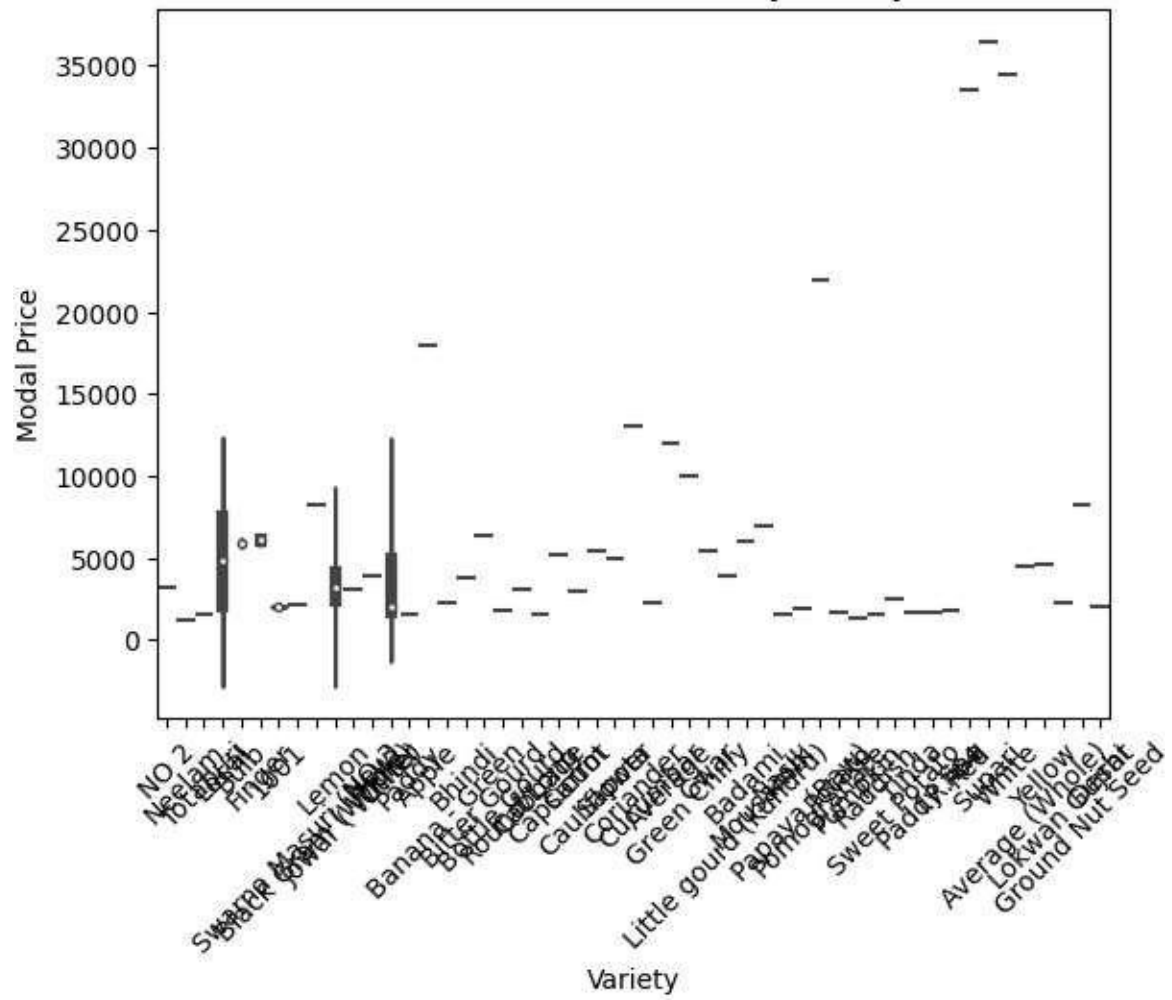


Average Modal Price by Market

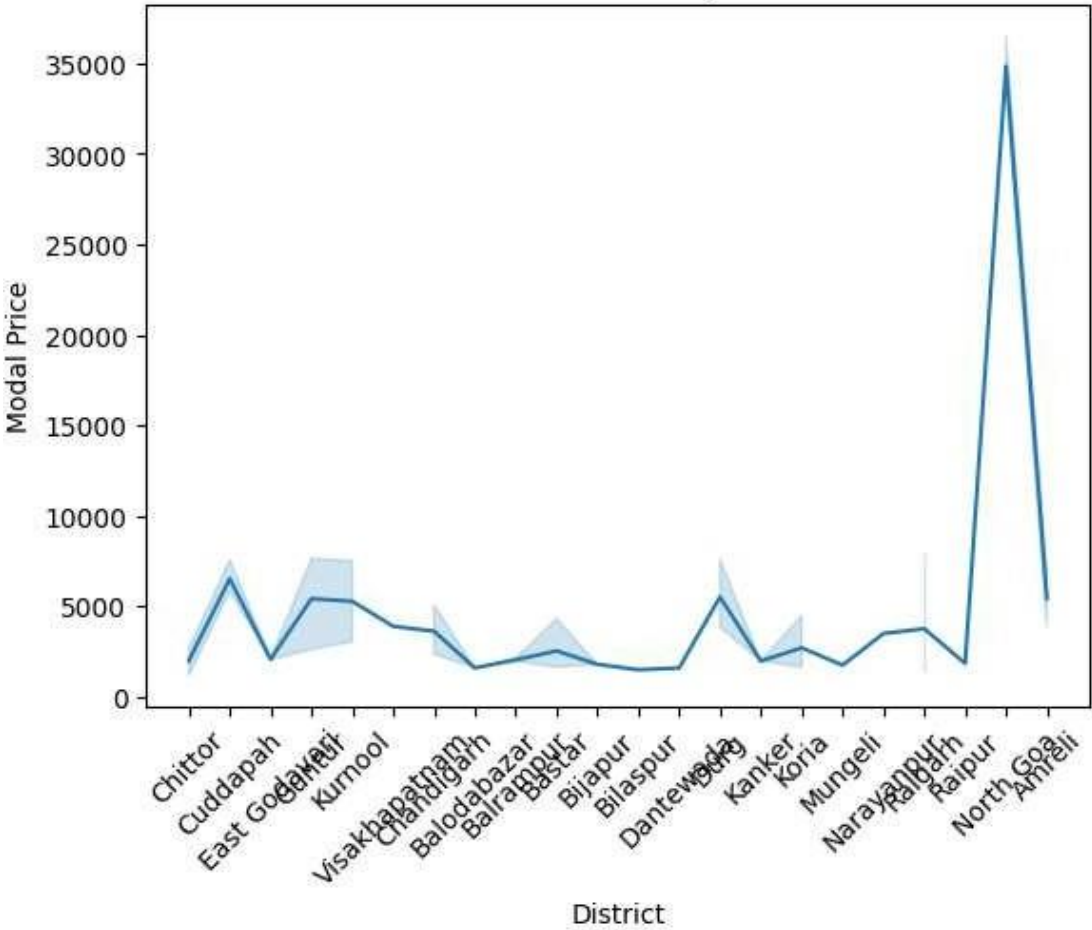




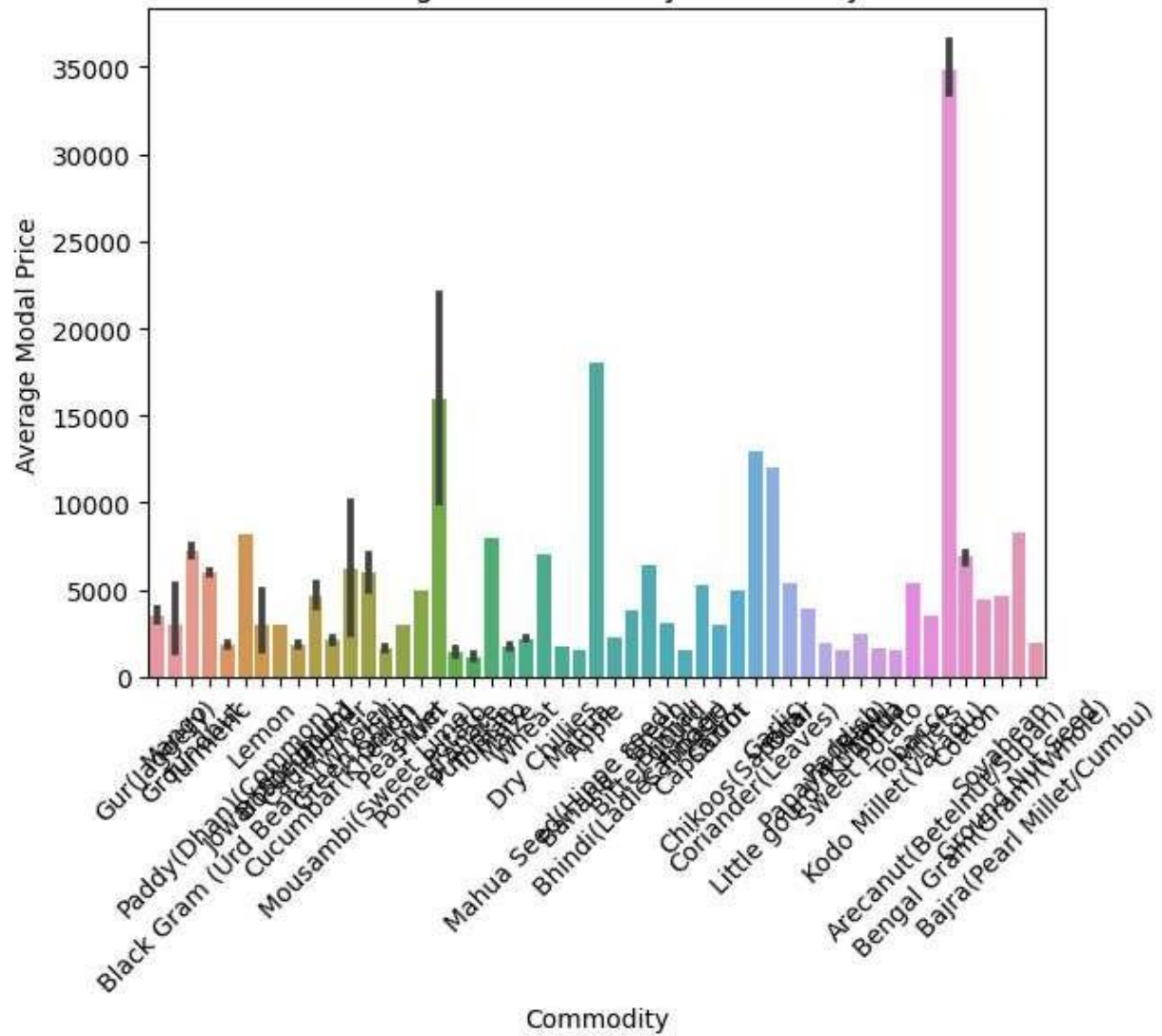
Modal Price Distribution by Variety

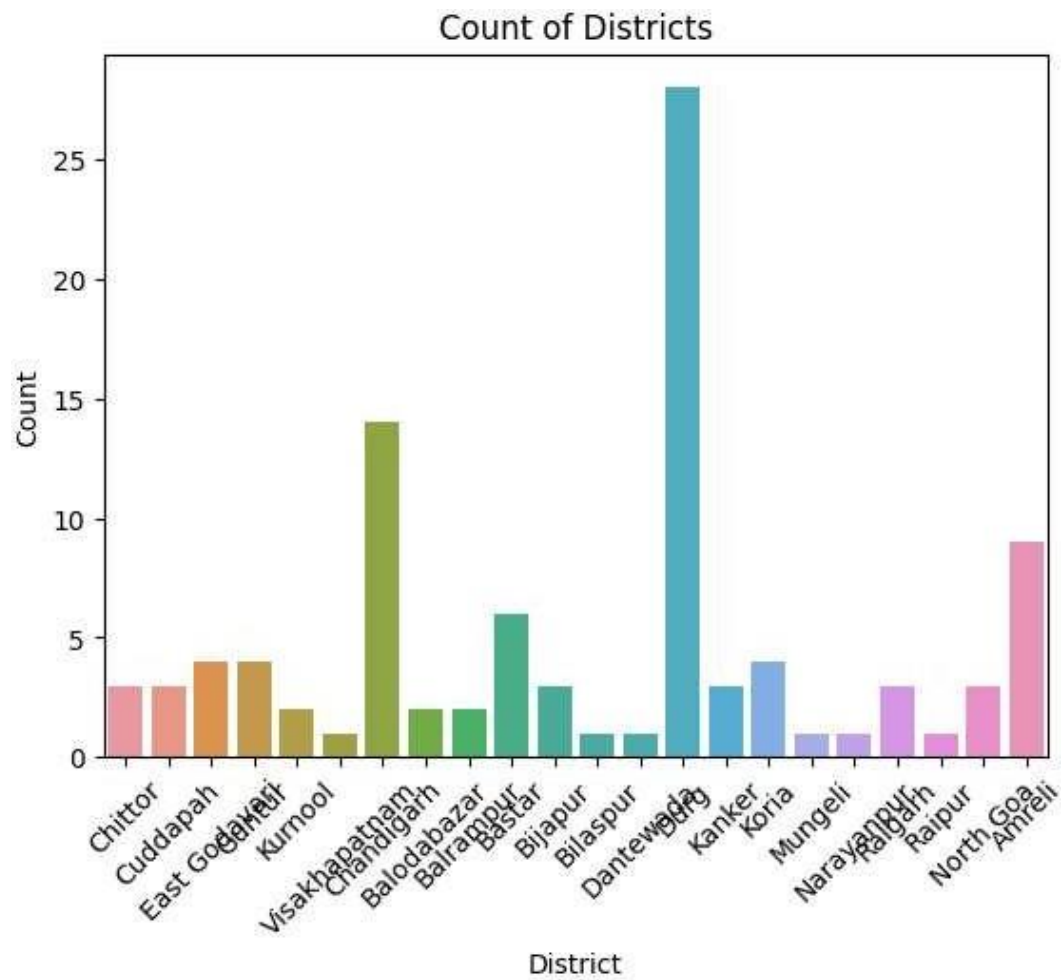


Modal Price Trend by District

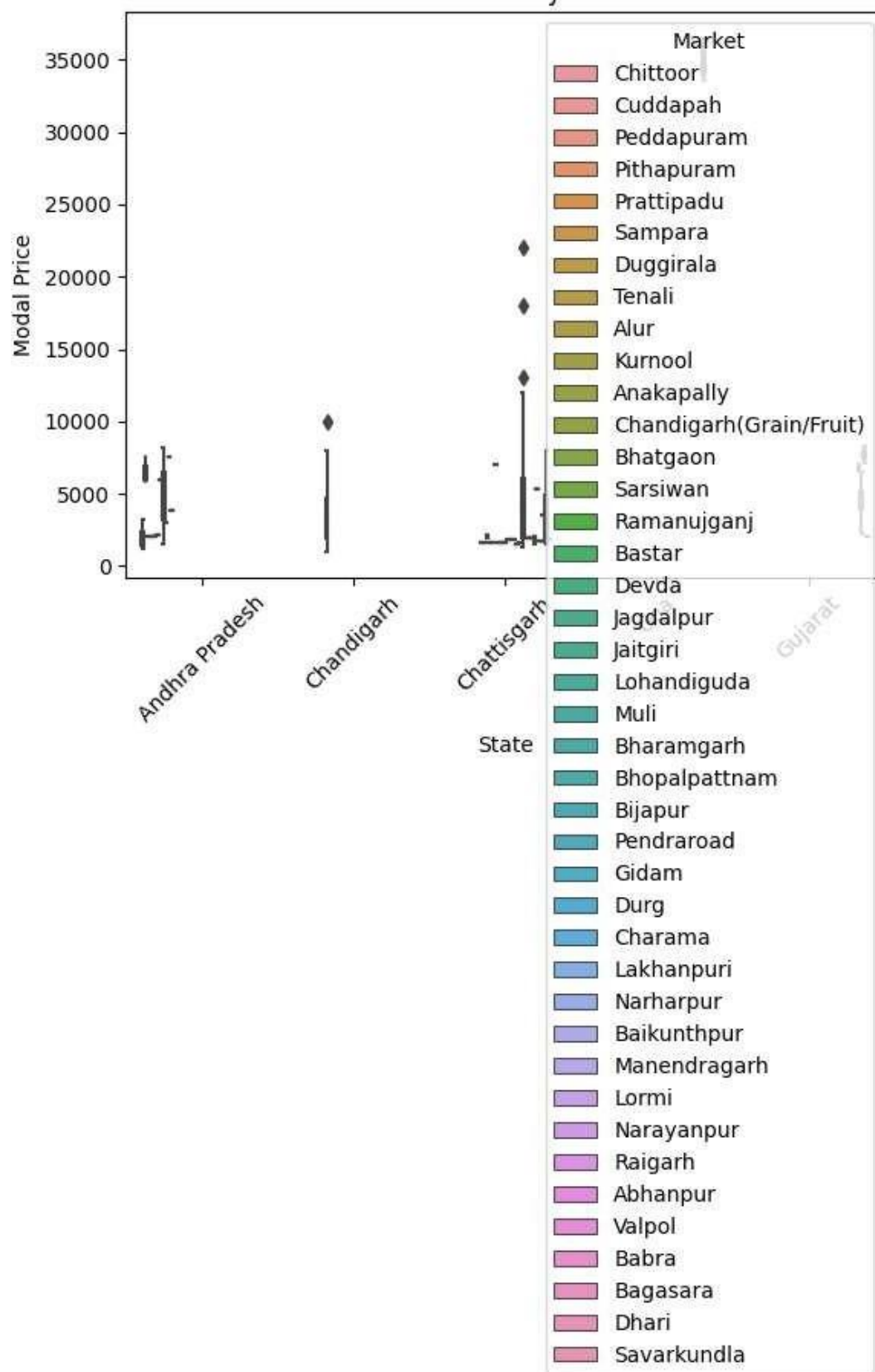


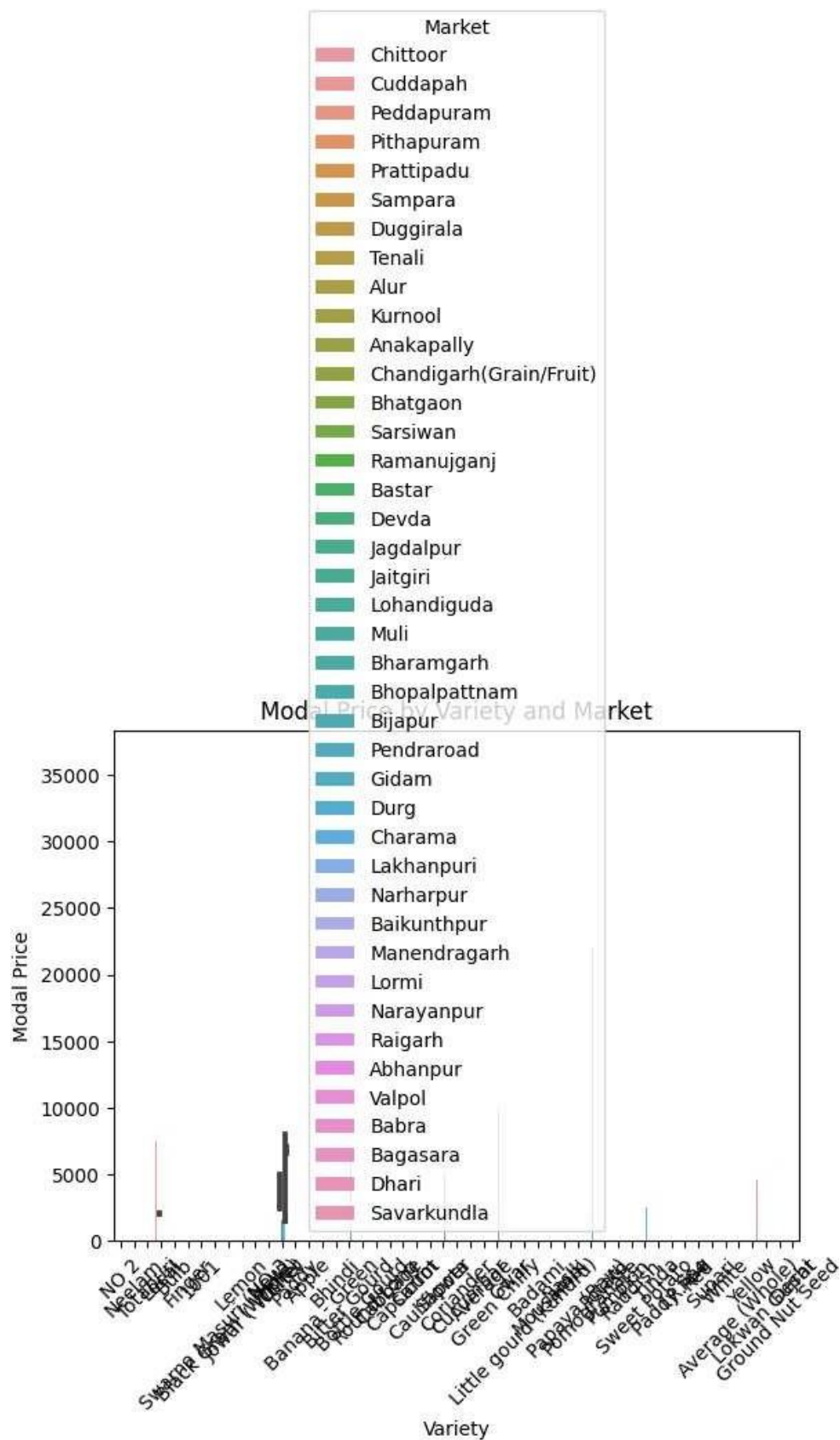
Average Modal Price by Commodity



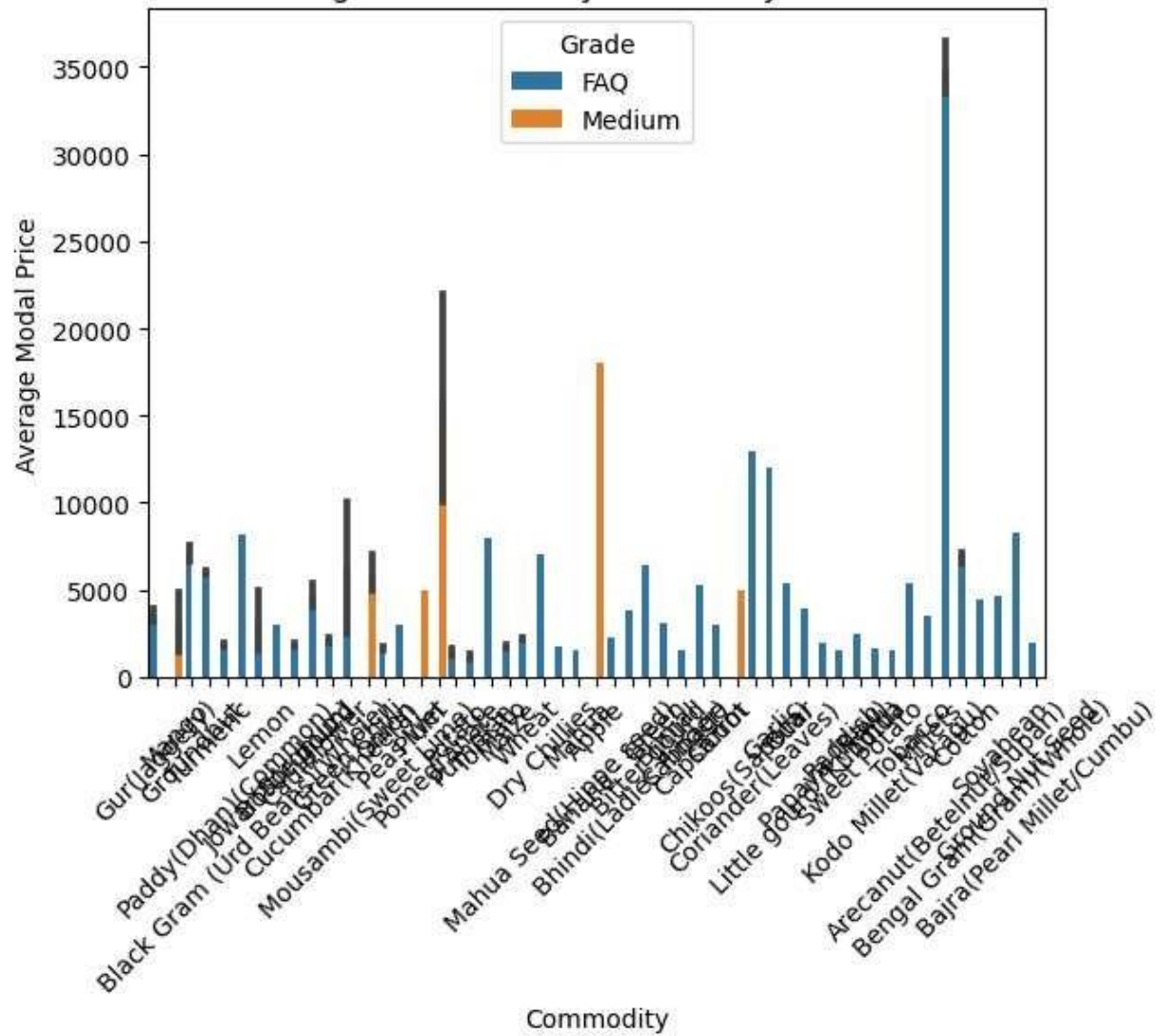


Modal Price Distribution by State and Market

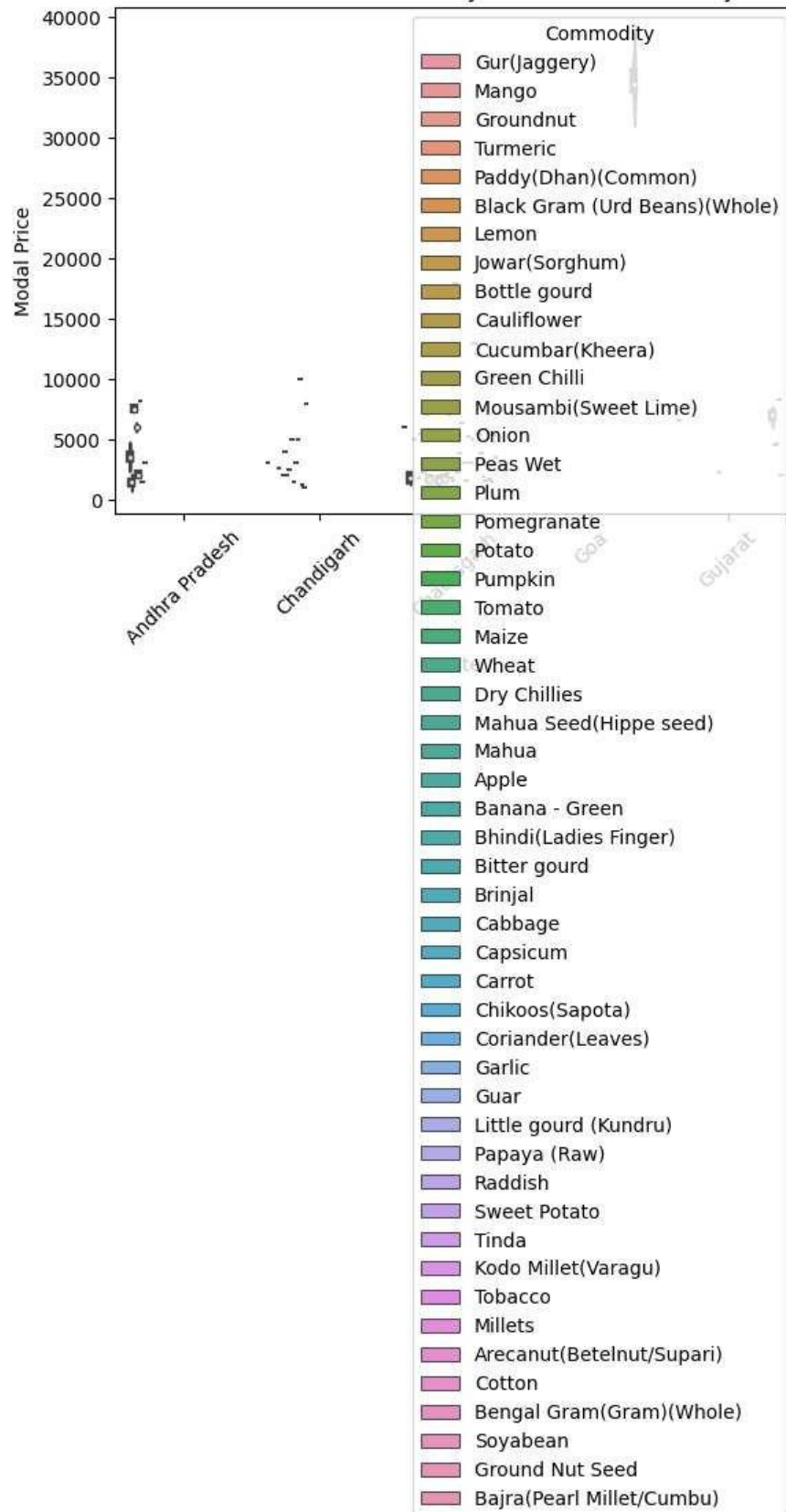




Average Modal Price by Commodity and Grade



Modal Price Distribution by State and Commodity



Modal Price vs Market by District

