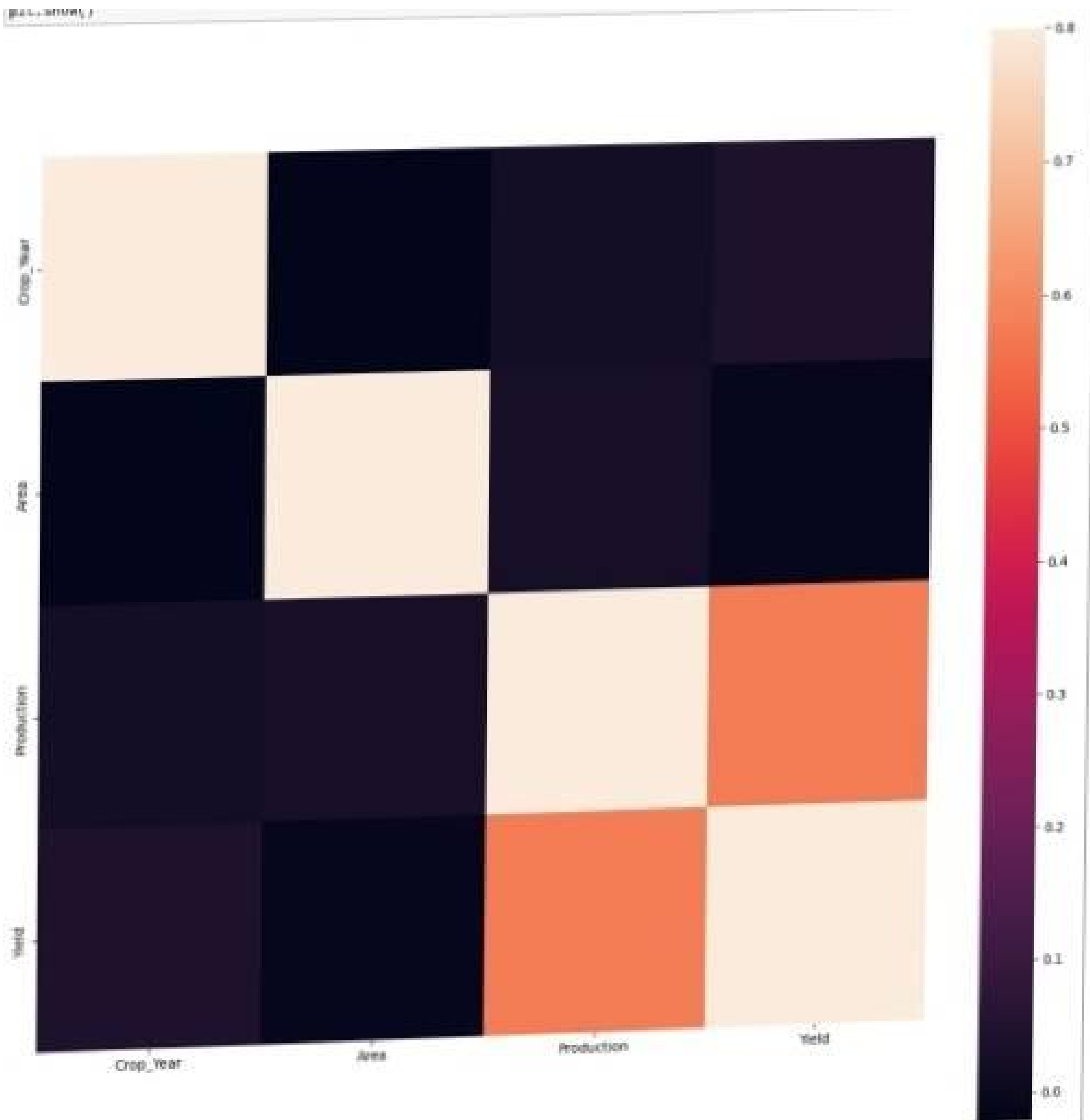


df

Out[7]:

	State_Name	District_Name	Crop_Year	Season	Crop	Area	Production	Yield
203	Andhra Pradesh	ANANTAPUR	1997	Kharif	Arhar/Tur	21400.0	2600.0	0.121495
204	Andhra Pradesh	ANANTAPUR	1997	Kharif	Bajra	1400.0	500.0	0.357143
205	Andhra Pradesh	ANANTAPUR	1997	Kharif	Castor seed	1000.0	100.0	0.100000
206	Andhra Pradesh	ANANTAPUR	1997	Kharif	Cotton(lint)	7300.0	9400.0	1.287671
207	Andhra Pradesh	ANANTAPUR	1997	Kharif	Dry chillies	3700.0	7100.0	1.918919
...	...	...	...	...	...	...	...	...
9826	Andhra Pradesh	WEST GODAVARI	2014	Rabi	Tobacco	28046.0	89107.0	3.177173
9827	Andhra Pradesh	WEST GODAVARI	2014	Rabi	Tomato	224.0	3035.0	13.549107
9828	Andhra Pradesh	WEST GODAVARI	2014	Rabi	Urad	5418.0	4833.0	0.892027
9829	Andhra Pradesh	WEST GODAVARI	2014	Whole Year	Coconut	21729.0	<a href="#">718991000.0</a>	33089.005477
9830	Andhra Pradesh	WEST GODAVARI	2014	Whole Year	Rice	409286.0	1624324.0	3.968677

9628 rows × 8 columns



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Out[9]:

	State_Name	District_Name	Crop_Year	Season	Crop	Area	Production	Yield
493	Andhra Pradesh	ANANTAPUR	2004	Kharif	Arhar/Tur	32752.0	7893.0	0.240993
494	Andhra Pradesh	ANANTAPUR	2004	Kharif	Bajra	1021.0	403.0	0.394711
495	Andhra Pradesh	ANANTAPUR	2004	Kharif	Castor seed	1578.0	923.0	0.584918
496	Andhra Pradesh	ANANTAPUR	2004	Kharif	Cotton(lint)	8933.0	7041.0	0.788201
497	Andhra Pradesh	ANANTAPUR	2004	Kharif	Dry chillies	3402.0	11288.0	3.318048
...	...	...	...	...	...	...	...	...
9826	Andhra Pradesh	WEST GODAVARI	2014	Rabi	Tobacco	28046.0	89107.0	3.177173
9827	Andhra Pradesh	WEST GODAVARI	2014	Rabi	Tomato	224.0	3035.0	13.549107
9828	Andhra Pradesh	WEST GODAVARI	2014	Rabi	Urad	5418.0	4833.0	0.892027
9829	Andhra Pradesh	WEST GODAVARI	2014	Whole Year	Coconut	21729.0	<a href="#">718991000.0</a>	33089.005477
9830	Andhra Pradesh	WEST GODAVARI	2014	Whole Year	Rice	409286.0	1624324.0	3.968677

5999 rows x 8 columns

Out[10]:

	State_Name	District_Name	Crop_Year	Season	Crop	Area	Production	Yield	ANANTAPUR	CHITTOOR	...	2006	2007	2008	2009	2010
493	Andhra Pradesh	ANANTAPUR	2004	Kharif	Arhar/Tur	32752.0	7893.0	0.240993	1	0	...	0	0	0	0	0
494	Andhra Pradesh	ANANTAPUR	2004	Kharif	Bajra	1021.0	403.0	0.394711	1	0	...	0	0	0	0	0
495	Andhra Pradesh	ANANTAPUR	2004	Kharif	Castor seed	1578.0	923.0	0.584918	1	0	...	0	0	0	0	0
496	Andhra Pradesh	ANANTAPUR	2004	Kharif	Cotton (lint)	8933.0	7041.0	0.788201	1	0	...	0	0	0	0	0
497	Andhra Pradesh	ANANTAPUR	2004	Kharif	Dry chillies	3402.0	11288.0	3.318048	1	0	...	0	0	0	0	0
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9826	Andhra Pradesh	WEST GODAVARI	2014	Rabi	Tobacco	28046.0	89107.0	3.177173	0	0	...	0	0	0	0	0
9827	Andhra Pradesh	WEST GODAVARI	2014	Rabi	Tomato	224.0	3035.0	13.549107	0	0	...	0	0	0	0	0
9828	Andhra Pradesh	WEST GODAVARI	2014	Rabi	Urad	5418.0	4833.0	0.892027	0	0	...	0	0	0	0	0
9829	Andhra Pradesh	WEST GODAVARI	2014	Whole Year	Coconut	21729.0	<a href="#">718991000.0</a>	33089.005477	0	0	...	0	0	0	0	0

Out[11]:

	Area	Yield	ANANTAPUR	CHITTOOR	EAST GODAVARI	GUNTUR	KADAPA	KRISHNA	KURNOOL	PRAKASAM	...	2006	2007	2008	2009	2010
493	32752.0	0.240993	1	0	0	0	0	0	0	0	...	0	0	0	0	0
494	1021.0	0.394711	1	0	0	0	0	0	0	0	...	0	0	0	0	0
495	1578.0	0.584918	1	0	0	0	0	0	0	0	...	0	0	0	0	0
496	8933.0	0.788201	1	0	0	0	0	0	0	0	...	0	0	0	0	0
497	3402.0	3.318048	1	0	0	0	0	0	0	0	...	0	0	0	0	0
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9826	28046.0	3.177173	0	0	0	0	0	0	0	0	...	0	0	0	0	0
9827	224.0	13.549107	0	0	0	0	0	0	0	0	...	0	0	0	0	0
9828	5418.0	0.892027	0	0	0	0	0	0	0	0	...	0	0	0	0	0
9829	21729.0	33089.005477	0	0	0	0	0	0	0	0	...	0	0	0	0	0
9830	409286.0	3.968677	0	0	0	0	0	0	0	0	...	0	0	0	0	0

5999 rows × 83 columns



Out[12]:

	Area	Yield	ANANTAPUR	CHITTOOR	EAST GODAVARI	GUNTUR	KADAPA	KRISHNA	KURNOOL	PRAKASAM	...	2006	2007	2008	2009	2010
493	0.037343	0.240993	1	0	0	0	0	0	0	0	...	0	0	0	0	0
494	0.001163	0.394711	1	0	0	0	0	0	0	0	...	0	0	0	0	0
495	0.001798	0.584918	1	0	0	0	0	0	0	0	...	0	0	0	0	0
496	0.010184	0.788201	1	0	0	0	0	0	0	0	...	0	0	0	0	0
497	0.003878	3.318048	1	0	0	0	0	0	0	0	...	0	0	0	0	0
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9826	0.031977	3.177173	0	0	0	0	0	0	0	0	...	0	0	0	0	0
9827	0.000254	13.549107	0	0	0	0	0	0	0	0	...	0	0	0	0	0
9828	0.006177	0.892027	0	0	0	0	0	0	0	0	...	0	0	0	0	0
9829	0.024775	33089.005477	0	0	0	0	0	0	0	0	...	0	0	0	0	0
9830	0.466673	3.968677	0	0	0	0	0	0	0	0	...	0	0	0	0	0

5999 rows × 83 columns

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Out[13]:

	Area	Yield	ANANTAPUR	CHITTOOR	EAST GODAVARI	GUNTUR	KADAPA	KRISHNA	KURNOOL	PRAKASAM	...	2006	2007	2008	2009	2010	2011
493	0.037343	0.240993	1	0	0	0	0	0	0	0	...	0	0	0	0	0	0
494	0.001163	0.394711	1	0	0	0	0	0	0	0	...	0	0	0	0	0	0
495	0.001798	0.584918	1	0	0	0	0	0	0	0	...	0	0	0	0	0	0
496	0.010184	0.788201	1	0	0	0	0	0	0	0	...	0	0	0	0	0	0
497	0.003878	3.318048	1	0	0	0	0	0	0	0	...	0	0	0	0	0	0

5 rows × 83 columns

	Area	ANANTAPUR	CHITTOOR	EAST GODAVARI	GUNTUR	KADAPA	KRISHNA	\
1711	0.000246	0	1	0	0	0	0	
5452	0.031408	0	0	0	0	0	0	
538	0.003756	1	0	0	0	0	0	
2336	0.014880	0	0	1	0	0	0	
2172	0.001397	0	0	1	0	0	0	
...	...	...	...	...	...	...	...	
6278	0.001999	0	0	0	0	0	0	
8796	0.000129	0	0	0	0	0	0	
8831	0.000385	0	0	0	0	0	0	
8995	0.000344	0	0	0	0	0	0	
1644	0.000268	0	1	0	0	0	0	

	KURNOOL	PRAKASAM	SPSR NELLORE	...	2006	2007	2008	2009	2010	\
1711	0	0	0	...	0	0	0	0	0	
5452	1	0	0	...	0	0	0	0	0	
538	0	0	0	...	0	0	0	0	0	
2336	0	0	0	...	0	0	0	0	1	
2172	0	0	0	...	1	0	0	0	0	
...	...	...	...	...	...	...	...	...	...	
6278	0	1	0	...	0	0	0	0	0	
8796	0	0	0	...	0	0	0	0	0	
8831	0	0	0	...	0	0	0	0	0	
8995	0	0	0	...	0	0	0	1	0	
1644	0	0	0	...	0	0	0	0	0	

	2011	2012	2013	2014	Andhra Pradesh
1711	0	0	1	0	1
5452	0	0	1	0	1
538	0	0	0	0	0



Model: "sequential\_1"

Layer (type)	Output Shape	Param #
dense (Dense)	(None, 128)	10624
dense_1 (Dense)	(None, 256)	33024
dense_2 (Dense)	(None, 256)	65792
dense_3 (Dense)	(None, 256)	65792
dense_4 (Dense)	(None, 1)	257

