Data Analysis and Model Report

First Few Rows of the DataFrame:

1	1.0	0.0	0.0.1	0.0.2	0.0.3	0.0.4	0.139	0.01	1.33	0.149	0.663	0.525 8	701.81072310	1 59 7/4581	3 2623 4	9 863 299	9 9.9 191999	191791513 8	235303
2.0	0.0	1.0	0.0	0.0	0.0	0.0	0.143	0.01	1.17	0.108	0.663	0.55 97	1 054875	35355 705	15 1512224 777	37064199	7 9925 97	99882 35	29413
3.0	0.0	0.0	1.0	0.0	0.0	0.0	0.173	0.018	1.3	0.144	0.638	005632	52 5.4536 32	3590119109	358366	290233 9	44 7.32 9	19993 32	35294
4.0	0.0	0.0	0.0	1.0	0.0	0.0	0.096	-0.002	1.39	0.144	0.613	0 0.4 8725 43	5 10328596	34982 50	25 00.188 6	04 6.86 600	89D088005	88285 29	41176
5.0	0.0	0.0	0.0	0.0	1.0	0.0	0.096	0.001	1.04	0.087	0.725	005 32 66	61 40913056	5 90/3 332	5409215792	38952 50	5 0 9 22 970	5882352	94117
6.0	0.0	0.0	0.0	0.0	0.0	1.0	0.07	-0.005	1.1	0.11	0.563	0.463	0.2	0042908	8 2 33 429 0	62868 37	3 06223 52	9411764	70588

Model Evaluation Metrics:

Metric	Value
Mean Squared Error	1.0743185240484377e-06
R-squared Score	0.9998999871635186

Correlation Matrix:

	1	1.0	0.0	0.0.1	0.0.2	0.0.3	0.0.4	0.139	0.01	1.33	0.149	0.663	0.525 8	701.810728310	1 52 7745381.	3 2623 45	9 863 3299	9 9.91 91979	19993 8	235303
	0. 010 796	4 8829998	14991/322256	23.806 23	09:103:62	3 49.7193 33	3 632429 8	708333 2	3 4911652 0	2 36 #125#17	40022895	6 07256 6	7 30/255 2	27230738187 12	164001 /6 7522	22142355745	3042536374	85700 272 057	9187878462 14	87458
0.01796	4882966	4907.90299	30.1136229	B6021282299	6023339	602339	6 002377 4	8028374 4	34 9331568 0	8 16218149 02	4 82381/26 30	9 5BD33 2	2 9206 3£	9873235	D G39 1484 8	8 66627 13	964523653	363345 29	991084191417	9832886
-0.0998	190.335533	5030522	4 621203 9	0 433/213/2	74264911332	742619123 32	7 4369 9 8 2	7 2.695 781	E27.829573	2 43526 8	95044	212334357	282482131	295356 5	66006B 34	43923 50	1622915 0	89 0.8 8359	8539694	96709
-0.0716	2 -8 80 759	B 958 £33	64337 82	7- 2623013 39	043202389	746923 2	7 0:81912H8 12	73 26348 6	31 0 1431574617	24162258684	39:30:37	869043 00	B9 97254B 2715	58.39428 1	75196283 3	660/5492	0993386	96462483	89167 81	694853
-0.03055	707.11369919	BADA 2923 9	642323	743925 2	7 -2629003 29	0 4321232	7 426191218 3	796362 3	905 B4633 9	9 5083965 6	1 635/2183 9	6366334 9	30322805	9 89.4286 3	19 6123160 2	7256 3863 53	2 52239 6	72832 43	80 9286 5	06284
0.0362	7491899	3682199	6423239	746913 2	746928 2	7- 2620 0389	0403452483	7 06262 0	9 20334 0	6 3XB6 3 382	2 822 26 3 78	96.5967 2	2400150 8	399 (6136)	9 /62/007/8 7	2709758654	200936	28/33413/243	201536069	783556
0.1508	37031466999	370012382139	6423739	746828 2	74267323 12	743824 2	7 -26383 810	1-605 266 5	36 0239 91	2033295	06608936	76IB344	7 3:2 5:3 :2 5:2	0 20828 324	2 79835 6	590.3 026	59 69 308718	496B3426	533205 2	524744
0.2724	60 8.523782 2	7555 69 27	4 38928 181	3227221696	2 2063156 13	9062686	96533 60	5 622976 3	82082215477	45370228684	31518718525288		03/95/45/85/04	EIB9 967	667 928 142 36	6561282456 121	553034602 59	9334255	82552 81	98855
0.3835	3 4006527 0	2 4631528 8	5 50238415 38	2 3634527642 7	45888 0	7400 236 5	6 20036 3	208254 1	5 9:13298 76	04847335	41871 2628 7	692.3525	8 38199412 63	35/952 61	39379 62	1280C012357	1 7478 7256115329	941 7965788 518	62005 8499	42142
-0.611	4506 41687 0	403567 2	0 08626 8	0660505	39891515 81	14858419290	132 234 5	8857 09 56	0484537	433 182326 1	5 5554886 6	933539 76	28293 4	6 206299 9	8 113939 6	639 348 6	6 5233 6	96435278	57125481351 5	739825
-0.4547	7092586	80 3426 8	9005/58 8	29.3086	1860883KD	384616223977	D 461606357 786	K#67087Z7#68	3707. 263 7	6959990	8 -334339 26	404 76 9	4 0700X5866 12	7 20 K0 0 S71 5 28	02402858/5/0	683839 9	74554669982	19316015345760	0828286	31746
0.2293	556 926 3	7934352	202853 7/	D 332240 59	6000745245	36681926672	77400363642 44	73624684285	59248668	9 6639 20	1284793 1	47 017535 98	0 40692 7	5200577 27	48#8247	87.680.03097 10	1893223	5 46256559 2	2 3634 47	09737
0.2506	330.5952	8 03564 6	2 0 402330	20/3239	30346 76	2 23.786 8	8605439)4 3838 6	236 93976	5237042415 98	7 207 45 750 018	902 8 069983	5 700503 793	4 64585 5	.\$40 8997	9563369	18666337	74 0 B 822 9	95034 39	42781
0.2693	73.72470732	76 01332 33	3931148 36 60	58886 1883	953004125423	19912663	5 70.061 233	<i>57.</i> 998.28 176 1	3593 257	37.1921 633.4	8 83662 8	22085893	46467 32	3708997864	50024797	93 493	52501916162913	8 357288 8	3225 857	77945
0.381	1013232	20 936 63	1516 77 8 14 52 7314	74-36128823	B9999/5/419965	579003AQ\$3	201899744667	312 5811379123 17	493343 39	12031817353	7 422542 87	43335335	48033 74	56337 93	9 0:43:99: 84	58 6 .70 74 58	696539	103521576325	171663391391	13542
-0.612	20:33840	5 36352 63	9339893	36 09.090 90	CH SS658256 75	45 /902/288 /496	900 000	64623362	5804695 6	6392450	G B/216 967	81 781039 779	15 0 3370157	06975984	2867635	6 968386 9	24 0 8 0 64	71705238256 1	56292 55	560404
-0.4575	36215160710	85402218351	N625505212	X 29 0023X 223 4.3	26333 04	291275123766	79 (BH)640	3430838077927) &&&& &6	6667 99 9	19 90469 81	9433469	8 42669 3	6972 23	8888888	294501870365	100230917	7607.0469955	198841716 57	957724
0.2294	767.4235	3 8 22 3 (22)	9 4245 36	93464067	BO1. 835.94 6	28 92/8 213	2906738362062	921838888	211 2216303 360	55006 9 32	3 7526-999 9	7 65532 3	7 5652 132	8457057738	33236 24	77 668399 112	1589012 15	59 814575 598	0119727	88285
0.2507	47.83644	8 045 654)1558 20018 16	8980VD 2 841	6948638	BA G 52B363	78 9369	B2015&6 8	6285	01251378716	7 %2825 6	306363	9 9 75 8 39	8 29.8 85/	170594931	0 35240 95	5 6684.59 7	9579227	8812805	