	<ul><li>0 E0 13-08-21 20:00</li><li>1 E0 14-08-21 12:30</li></ul>	Burnley Chelsea	Brighton Crystal Palace Southampton	1 2 3 0 3 1	A 1 H 2 H 0	0 0 1 0	1.62 0.25 1.94 -1.50 1.67 -0.50 	1.79 2.05	2.15 1.75		.14 1.8 .81 2.1	6 1.9 8 1.9	93 2. 90 2. 	79 2.12 06 1.82 03 1.86	
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2]:	data= data.drop(['Div data  HomeTeam Away  Brentford A  Man United	Team FTHG senal 2 Leeds 5 ghton 1 alace 3	ime', 'Refere  FTAG FTR H  0 H  1 H  2 A  0 H  1 H		- '	AvgC>2.5 2.33 1.67 2.34 1.90	1.62 2.25 1.62 1.94 1.67	1.75 2.05 1.79 2.05 2.05	2.05 1 1.75 2 2.15 1 1.75 2	AHH PCAHA  1.81 2.13  2.17 1.77  1.81 2.14  2.12 1.81  2.05 1.88	2.05 2.19 1.82 2.16 2.08	MaxCAHA  2.17  1.93  2.19  1.93  1.90	AvgCAHH  1.80 2.10 1.79 2.06 2.03	2.09 1.79 2.12 1.82	
3	376 Leicester Southa 377 Liverpool V 378 Man City Asto 379 Norwich Totte 380 rows × 100 columns data['HomeTeam'] = da 'Blackburn': 22 'Portsmouth': 2 'Reading': 32, 'Burnley': 37,	volves 3 n Villa 3 nham 0 aa['HomeTea 'Fulham': ', 'Wolves' Sheffield Blackpool'	1 H 2 H 5 A  m'].map({'Cr 23, 'Birming :28, 'Norwic United':33, :38, 'QPR':3	gham':24, 'M ch':29, 'Cry 'Watford':3 39, 'Swansea	Chelsea':2, diddlesboro' stal Palace 4, 'Hull':3	1.49 1.34 1.58  'Coventry': :25, 'West ':30, 'Wiga' 5, 'Stoke': iff':41, 'E	2.63 3.28 3.36 2.40 2.3, 'Derby': Brom':26, an':31,		2.07 1 1.77 2 1.84 2 1.95 1	1.74 2.23 1.88 2.03 2.06 1.83 2.05 1.86 1.96 1.94 ster':6,'L:	1.94 2.19 2.09 2.16	2.25 2.26 1.99 2.03 1.98	1.74 1.87 2.07 2.01 1.99	1.89	n':9, 'Man Unit
5]:	<pre>'Brighton':43,  data['AwayTeam'] = da</pre>	a['AwayTea 6, 'Bradfor 'Chelsea' 6, 'Derby': 'Bolton': 6, 'Wolves' atford':32, Blackpool' 43, 'Brigh	m'].map({'Mad':7, 'Arser:12, 'Man Ur 17, 'Coventr 22, 'Fulham':27, 'Portsn':5heffield:38, 'Swanseton':44, 'Br	an City':1, nal':8, 'Ips nited':13, ' ry':18, 'Lei ':23, 'West mouth':28, ' United':33, ea':39, 'QPR rentford':45	'West Ham': wich':9, 'N Tottenham': cester':19, Brom':24, ' Crystal Pal 'Reading': '2':40, 'Card	2, 'Middles ewcastle':1 14, 'Charlt 'Leeds':20 Middlesbord ace':29, 'N 34, 'Stoke' iff':41, 'E	l0, con':15, d), d)':25, Norwich':30, ':35, 'Hull'	:36,	on':4, 'Eve	erton':5,					
	<pre>data['HTR'] = data['H data['HTR'].unique() array([2, 1, 0])  y = data['FTR'] #Load X Variables int X = data.drop(['FTR'] #y is dependent varia  from sklearn.model_se X_train, X_test, y_tr  cor = X_train.corr()</pre>	a Pandas axis = 1) ale and X i ection imp in, y_test	Dataframe wi s independer <b>ort</b> train_te	ith columns nt variable. est_split		ate=100,tes	st_size=0.3)								
	plt.figure(figsize=(2 sns.heatmap(cor, cmap plt.show())  HomeTeam - 0.0000000000000000000000000000000000	15040 3091000106 3 10716 509204020 1 2010 1095042 0 709 50 50100709 5 37 8 0 50120575 3 4 9 9 0 50120575 3 4 9 9 0 50120 5 4 0 7 5 5 2 9 0 502 2 7 6 16 10 10 1 0 0 7 2 7 1 4 7 0 9 1 4 0 7 2 7 1 4 7 0 9 1 4 0 7 2 7 1 4 7 0 9 1 4 0 7 2 7 1 4 7 0 9 1 4 0 7 2 7 1 4 7 0 9 1 4 0 7 2 7 1 4 7 0 9 1 4 0 7 2 7 1 4 7 0 9 1 4 0 7 2 7 1 4 7 0 9 1 4 0 7 2 7 1 4 7 0 9 1 4 0 7 2 7 1 4 7 0 9 1 4 0 7 2 7 1 4 7 0 9 1 4 0 7 2 7 1 4 7 0 9 1 4 0 7 2 7 1 4 7 0 9 1 4 7 1 2 4 0 7 1 5 1 0 7 1 4 7 1 3 7 1 4 0 7 1 1	51-9 .0 40 2790 6323 .0 5 4.6 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 (012-30 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	return col_corr  corr_features = corre corr_features  {'AST',   'Avg<2.5',   'Avg>2.5',   'AvgA',   'AvgAHA',   'AvgC<2.5',   'AvgC>2.5',   'AvgC>2.5',   'AvgCAHA',   'AvgCAHA',   'AvgCAHA',   'AvgCAHH',   'AvgCO',	ation(X_tr	ain, 0.7)												
	'AvgCH', 'AvgD', 'AvgH', 'B365<2.5', 'B365>2.5', 'B365AHA', 'B365C<2.5', 'B365C>2.5', 'B365CA', 'B365CD', 'B365CH', 'BWCA', 'BWCD', 'BWCH', 'BWD',														
	'BWD', 'BWH', 'HTAG', 'IWA', 'IWCA', 'IWCD', 'IWCH', 'IWH', 'Max<2.5', 'Max>2.5', 'MaxAHA', 'MaxAHA', 'MaxC<2.5', 'MaxC>2.5',														
	'MaxCAHA', 'MaxCAHH', 'MaxCD', 'MaxCH', 'MaxD', 'MaxH', 'P<2.5', 'P>2.5', 'P>4HA', 'PC<2.5', 'PC>2.5', 'PC>4AA', 'PSAHA', 'PSCA', 'PSCD', 'PSCH',														
	'PSD', 'PSH', 'VCA', 'VCCA', 'VCCD', 'VCCH', 'VCD', 'VCH', 'WHA', 'WHCA', 'WHCH', 'WHCH', 'WHD', 'WHH'}  X_train.drop(corr_feat														
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28]:	280 30 8 17 266 rows × 99 columns  #Chi-square #Perform chi2 test from sklearn.feature_ #Calculating Fscore a f_p_values=chi2(X_tra f_p_values (array([1.53700803e+0.66])	0 2 selection <b>i</b> nd p value n,y_train)	0 0 4 2 <b>mport</b> chi2 21e+01, 1.39	0 0 7 1 2 17	18 1 8 3	1.69 1.88	2.21	1.90 2	2.03 1.92 1.92 2.02	2.01	2.03 2.12	2.05 1.94	1.91 2.00	1.97 1.89	
	3.94351997e+0: 9.32518451e+0: 5.78481419e-0: 9.24057502e+0: 4.92709778e+0: 1.26148191e+0: 8.08685826e+0: 3.94731115e+0: 1.39692623e+0: 7.60630400e+0: 7.37322924e-0: 7.53033968e-0: 2.20656138e-0: 1.13052645e-0: 4.49462640e+0: 1.23573013e+0:	, 7.331860 , 4.943030 , 8.532822 , 1.282467 , 6.656936 , 5.176108 , 1.329062 , 8.866096 , 5.052648 , 2.512536 , 2.430094 , 1.353301 , 1.070257	61e+01, 1.06 01e+00, 8.40 34e+00, 5.74 36e+02, 7.32 36e+01, 4.43 60e+00, 1.49 19e+02, 7.71 62e+01, 6.08 52e+00, 1.33 88e-01, 7.25 61e-01, 6.48 58e-02, 1.42 12e-02, 1.07	3928244e+02, 3732268e+00, 4630234e+00, 2690278e+01, 3202890e+00, 311323e+02, 1882862e+01, 3287869e+00, 3846164e+02, 5914075e-01, 3120695e-01, 2491363e-02, 7978459e-02,	3.985434406 6.215403216 7.205512046 4.532142076 1.114712866 7.400107696 5.062319246 1.739561856 2.436557266 2.595729176 7.527932256 1.223232666 7.036784136 5.430645516	e+00, e+00, e+01, e+00, e+02, e+01, e+02, e-01, e-01, e-03, e-02, e+01, e+00,									
	1.23573013e+0 7.84313817e+0 4.54371533e+0 1.31709132e+0 7.32418245e+0 8.07573881e-0 8.40389721e-0 3.96314425e-0 1.54139511e-0 array([4.21012124e-3 2.73372728e-0 5.63143550e-2 7.48831933e-0 9.84996370e-0	, 6.536335 , 5.650987 , 1.330249 , 9.131145 , 5.477706 , 2.923052 , 2.873997 , 5.557913 , 1.039911 , 1.342321 , 2.033029 , 1.199684 , 8.445680 , 1.403205	58e+01, 3.47 07e+00, 1.37 79e+02, 7.90 21e+01, 6.42 45e+00, 1.26 35e-01, 7.98 81e-01, 7.53 80e-03, 1.01 69e-02, 1.11 34e-16, 6.12 88e-12, 5.33 28e-16, 6.03 95e-02, 1.49	7284422e+00, 7038988e+02, 9801169e+01, 2030631e+00, 353438e+02, 3061535e-01, 3006617e-01, 1116694e-02, 1944090e-02] 2951309e-31, 3801455e-04, 3707892e-24, 9407733e-02,	1.061664344 7.279530936 5.186001276 1.683259146 2.168655386 3.155556456 6.405676996 1.490799916 ), 7.832605006 1.568965376 1.363245016 4.470358396 2.256469166	e+02, e+01, e+00, e+02, e-01, e-01, e-03, e-02, e-32, e-13, e-01, e-02, e-16,									
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	8.51322891e-0 4.04826041e-2 2.75175904e-1 1.38947992e-0 4.63588108e-3 3.04173050e-1 6.91659524e-0 6.86247462e-0 9.89027831e-0 9.94363314e-0 1.05682792e-0 1.46710509e-2 9.30768882e-1 1.03120439e-0 2.51029819e-2	, 3.504663 , 7.516614 , 1.379689 , 5.591338 , 7.995236 , 8.819438 , 8.855868 , 9.932563 , 9.946630 , 8.924003 , 6.405125 , 5.927939 , 1.300148 , 1.485833	88e-02, 3.77 05e-29, 1.73 73e-20, 4.77 50e-02, 8.62 88e-01, 6.95 64e-01, 7.23 33e-01, 9.92 07e-01, 9.94 63e-26, 9.57 36e-15, 1.76 31e-02, 1.74 15e-29, 6.72	3291246e-17, 7660881e-02, 2332436e-30, 5616318e-01, 3206597e-01, 2900751e-01, 4615625e-01, 7249063e-15, 5149518e-01, 4727780e-30, 2931395e-18, 3504329e-02,	1.682264906 8.853007486 8.782829616 9.962431096 9.939025026 5.245868626 6.618358866 8.835920616 1.558473546 7.479526996 2.808614366	e-38, e-01, e-01, e-01, e-01, e-16, e-24, e-16, e-02, e-37,									
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5]:	4.04826041e-2 2.75175904e-1 1.38947992e-0 4.63588108e-3 3.04173050e-1 6.91659524e-0 6.86247462e-0 9.89027831e-0 9.94363314e-0 1.05682792e-0 1.46710509e-2 9.30768882e-1 1.03120439e-0 2.51029819e-2 1.24663662e-1 6.67786384e-0 6.56918800e-0 9.80379320e-0 9.92322647e-0  import pandas as pd p_values=pd.Series(f_pvalues.index=X_traip_values  HomeTeam	, 3.504663, 7.516614, 1.379689, 5.591338, 7.995236, 8.819438, 9.932563, 9.946630, 8.924003, 6.405125, 5.927939, 1.300148, 1.485833, 6.464443, 8.661476, 9.972249, 9.948139  -values[1] -columns  34 16 31 32 09 01 01 01 01 01 01 01 01 01 01	88e-02, 3.77 05e-29, 1.73 73e-20, 4.77 50e-02, 8.62 88e-01, 6.95 64e-01, 7.23 33e-01, 9.92 07e-01, 9.94 63e-26, 9.57 31e-02, 1.74 15e-29, 6.72 35e-20, 4.03 71e-02, 3.65 27e-01, 6.86 01e-01, 9.94 )	3291246e-17, 7660881e-02, 2332436e-30, 5616318e-01, 3206597e-01, 2900751e-01, 4615625e-01, 7249063e-15, 5149518e-01, 4727780e-30, 2931395e-18, 3504329e-02, 5341896e-28, 9970057e-01, 5256847e-01,	1.682264906 8.853007486 8.782829616 9.962431096 9.939025026 5.245868626 6.618358866 8.835920616 1.558473546 7.479526996 2.808614366 8.972392156 8.540395096 9.968022856 9.925737136	e-38, e-01, e-01, e-01, e-16, e-02, e-24, e-16, e-02, e-37, e-01, e-01,									
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1]: 5]: 5]: 6]:	4.04826041e-2 2.75175904e-1 1.38947992e-0 4.63588108e-3 3.04173050e-1 6.91659524e-0 6.86247462e-0 9.89027831e-0 9.94363314e-0 1.05682792e-0 1.46710509e-2 9.30768882e-1 1.03120439e-0 2.51029819e-2 1.24663662e-1 6.67786384e-0 6.56918800e-0 9.80379320e-0 9.92322647e-0  import pandas as pd p_values=pd.Series(f_p_values.index=X_traip_values  HomeTeam	3.504663 7.516614 1.379689 5.591338 7.995236 8.819438 8.9.932563 9.946636 8.924003 6.405125 7.5927939 1.300148 7.1.485833 7.9.972249 7.9.948139 0_values[1] 0.columns  34 16 31 32 09 01 01 01 01 01 01 01 01 01 01 01 01 01	## Provided State	2291246e-17, 7660881e-02, 2332436e-30, 6616318e-01, 2900751e-01, 249063e-15, 349518e-01, 727780e-30, 2931395e-18, 3504329e-02, 341896e-28, 970057e-01, 418431e-01]  2019799999999999999999999999999999999999	1.682264906 8.853007486 8.782829616 9.962431096 9.939025026 5.245868626 6.618358866 8.835920616 1.558473546 7.479526996 2.808614366 8.972392156 8.540395096 9.968022856 9.925737136 ))  2.11286928, 0.02441869, 0.07563864, 0.02553458, 0.14364863, 0.14364863, 0.14364863, 0.16817741, 0.02553458, 0.109329665, 0.03256263, 0.03256263, 0.03256263, 0.03256263,	e-38, e-01, e-01, e-01, e-16, e-02, e-24, e-16, e-02, e-37, e-01, e-01,									
	4.04826041e-2 2.75175904e-1 1.38947992e-0 4.63588108e-3 3.04173050e-1 6.91659524e-0 6.86247462e-0 9.89027831e-0 9.94363314e-0 1.05682792e-0 1.46710509e-2 9.30768882e-1 1.03120439e-0 2.51029819e-2 1.24663662e-1 6.67786384e-0 6.56918800e-0 9.80379320e-0 9.92322647e-0  import pandas as pd p_values=pd.Series(f_p_values.index=X_traip_values  HomeTeam	3.504663 7.516614 1.379689 7.591338 7.995236 8.819438 8.9.932563 9.946636 8.924003 6.405125 7.5927939 1.300148 7.1485833 7.9972249 7.9.948139 0_values[1] 0.columns  34 16 31 32 09 01 01 01 01 01 01 01 01 01 01 01 01 01	## See -02, 3.77 ## O5e -29, 1.73 ## O5e -29, 1.73 ## O5e -29, 4.77 ## O5e -02, 8.62 ## O1, 6.95 ## O1, 9.94 ## O1, 9.94 ## O1, 9.94 ## O1, 6.86 ## O1, 9.94 ## O1, 6.86 ## O1, 9.94 ## O1	3291246e-17, 7660881e-02, 7660881e-02, 7332436e-30, 7616318e-01, 7206597e-01, 7249063e-15, 7249063e-15, 7249063e-18, 727780e-30, 7231395e-18, 7256847e-01, 7256847e-01, 7256925e-01, 7418431e-01]  7260393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806	1.682264906 8.853007486 8.782829610 9.962431099 9.939025026 5.245868626 6.618358866 8.835920610 1.558473540 7.479526990 2.808614366 8.972392156 8.540395099 9.968022856 9.925737136 ))  iif  iif  iif  0.0772598, 0.082455367, 0.0.13687474, 0.0082455367, 0.0.14364863, 0.16817741, 0.02553458, 0.1274914, 0.1093296, 0.08495665, 0.03256263, 0.,	e-38, e-01, e-01, e-01, e-01, e-16, e-02, e-24, e-02, e-37, e-01, e-01, e-01, e-01,									
	4.04826041e-2 2.75175904e-1 1.38947992e-0 4.6358108e-3 3.04173050e-1 6.91659524e-0 9.89027831e-0 9.94363314e-0 1.05682792e-0 1.46710500e-2 9.30768882e-1 1.03120439e-0 2.51029819e-2 1.24663662e-1 6.67786384e-0 6.56918800e-0 9.80379320e-0 9.92322647e-0  import pandas as pd p_values=pd.Series(f_p_values.index=X_traip_values HOMETEAM 4.210121e AwayTeam 1.342321e FTHG 6.129513e FTAG 7.832605e HTHG 2.733727e  PCAHA 9.949569e MaxCAHA 9.925737e MaxCAHA 9.923226e AVgCAHA 9.944184e Length: 99, dtype: fl.  #WHD 1.389480e-01 MHCH 1.558474e-116 MHCH 1.558474e-116 MHCH 1.301204e-01 MHCH 1.558474e-16 MHCH 1.301204e-01 MHCH 1.558474e-16 MHCH 1.30148e-29  AST 6.037079e-24 AS 5.631436e-21 AR 5.652054e-02 AF 7.488319e-01 AC 1.494077e-02 Length: 99, dtype: fl.  #Mutual information g #Importing mutual inform	3.504663 7.516614 1.379689 7.591338 7.995236 8.819438 8.9.932563 9.946636 8.924003 6.405125 7.5927939 1.300148 7.1485833 7.9972249 7.9.948139 0_values[1] 0.columns  34 16 31 32 09 01 01 01 01 01 01 01 01 01 01 01 01 01	## See -02, 3.77 ## O5e -29, 1.73 ## O5e -29, 1.73 ## O5e -29, 4.77 ## O5e -02, 8.62 ## O1, 6.95 ## O1, 9.94 ## O1, 9.94 ## O1, 9.94 ## O1, 6.86 ## O1, 9.94 ## O1, 6.86 ## O1, 9.94 ## O1	3291246e-17, 7660881e-02, 7660881e-02, 7332436e-30, 7616318e-01, 7206597e-01, 7249063e-15, 7249063e-15, 7249063e-18, 727780e-30, 7231395e-18, 7256847e-01, 7256847e-01, 7256925e-01, 7418431e-01]  7260393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 727806393869, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 7278063646, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806364, 727806	1.682264906 8.853007486 8.782829610 9.962431099 9.939025026 5.245868626 6.618358866 8.835920610 1.558473540 7.479526990 2.808614366 8.972392156 8.540395099 9.968022856 9.925737136 ))  iif  iif  iif  0.0772598, 0.082455367, 0.0.13687474, 0.0082455367, 0.0.14364863, 0.16817741, 0.02553458, 0.1274914, 0.1093296, 0.08495665, 0.03256263, 0.,	e-38, e-01, e-01, e-01, e-01, e-16, e-02, e-24, e-02, e-37, e-01, e-01, e-01, e-01,									
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1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   1.75   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2.20=(20, 8)  2.20=(20, 8)  2.20=(20, 8)  2.20=(20, 8)  2.20=(20, 8)  2.20=(20, 8)  2.20=(20, 8)  2.20=(20, 8)  2.20=(20, 8)  2.20=(20, 8)  2.20=(20, 8)  2.20=(20, 8)  2.20=(20, 8)  2.20=(20, 8)  2.20=(20, 8)  2.20=(20, 8)  2.20=(20, 8)  2.20=(20	e - 38, e - 01, e - 01, e - 01, e - 01, e - 16, e - 02, e - 24, e - 16, e - 03, e - 01, e - 01, e - 01, e - 01,	2.2.5 4.2.5 4.2.5 4.2.5 4.2.5 4.3.5 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 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4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.4.4 4.	xxCD	2.2.5 HC	AHA	AAH		SCD -		
	### ### ### ### ### ### ### ### ### ##	, 3.504663, 7.516614, 1.37968, 7.516614, 1.37968, 7.591338, 7.995236, 8.819438, 8.855868, 9.932563, 9.946630, 6.405125, 5.927939, 1.300148, 1.485833, 6.464443, 8.640258, 8.661476, 9.972249, 9.948139  2. Values[1] 2. Values[1] 3. Columns  3. A	## Property of the component of the comp	R291246e-17, 7660881e-02, 2332436e-30, 616318e-01, 8206597e-01, 8206597e-01, 815625e-01, 72490599 , 8149518e-30, 8231395e-18, 8304329e-02, 831395e-18, 8304329e-02, 831395e-01, 8256847e-01, 8256847e-01	1.682264908 8.85300748 8.782829619 9.962431099 9.93902502 5.24586862 6.61835886 8.83592061 1.55847354 7.47952699 2.808614368 8.97239215 8.54039509 9.9682285 9.92573713 ))  Lif  O.0772598, (O.0824536, (O.0824536, (O.08245365, (O.082553458, (O.082556263, (O.08256263, (O.082556263, (O.08256263, (O.08256263	B365C>25-38, 6-01, 6-01, 6-01, 6-01, 6-02, 6-02, 6-02, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01, 6-01,	B3505-2.5 B3505-2.5 B3505-2.5 Max<2.5 MaxXHA  MaxXHA  MaxXHA	MAX Z. 2. MAX Z.	W.C.D. AvgC>2.5 HC HC HC HC HC HC HC HC HC HC	BWD	B365AHA	AV -	B36CD - PCAHA - PCAHA - PAHA - AwgCAHH -		
	### 4.04826041e-2 2 7.75175904e-1 1 1.3894792e-0 4 6.3638108e-3 3 0.40173950e-1 6 91659524e-0 6 6.86247462e-0 9 8.9027831e-0 9 .94363314e-0 1 .05682792e-0 1 .46710599e-2 9 .30768882e-1 1 .03120439e-0 2 .51629819e-2 1 .24663662e-1 6 .67786384e-0 6 .5691880e-0 9 .80379320e-0 9 .92322647e-0 9 .993222647e-0 1 .404074e-0 1 .3404184e HOMETEAM 4.210121e FTHG 6 .129513e FTAG 7.832605e MAXCAHA 9.925737e MAXCAHA 9.925737e MAXCAHA 9.925737e MAXCAHA 9.925737e MAYCAHA 9.9441584e Length: 99, dtype: fl P_values.sort_index(a WHH 8.528454e-17 WHO 1.389480e-01 WHCA 1.300148e-29 AST 6.037079e-24 AS 5.631436e-21 AR 5.652054e-02 AF 7.488319e-01 AC 1.494077e-02 Length: 99, dtype: fl #Mutual information g #Tmporting mutual information g #Tmporting	, 3.504663 , 7.516614 , 1.379689 , 5.1379689 , 5.591338 , 7.895236 , 8.8195868 , 9.932630 , 8.924003 , 6.405123 , 5.1370918 , 1.485833 , 6.464443 , 9.972249 , 9.948139  0.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101 , 1.101	in mport mutual on f(X_train, )  .28757347, 0 .63e-02, 8.62 86e-01, 6, 9.57 36e-15, 1, 74 36e-15, 1, 74 36e-15, 1, 74 36e-15, 1, 74 35e-20, 4, 36 37e-01, 9, 94 36e-15, 1, 74 35e-20, 4, 36 37e-01, 6, 86 01e-01, 9, 94 36e-01, 9,	2291246e-17, 7660881e-02, 7660881e-02, 7332436e-30, 7616318e-01, 720657e-01, 72149059e-01, 721780e-30, 7231395e-18, 7349518e-01, 727780e-30, 731395e-18, 7304329e-02, 73490599, 70.0362953, 70.0362953, 70.0362953, 70.0446844, 70.0227456, 70.03795137, 70.1693646, 70.0446844, 70.0227456, 70.03795137, 70.1693646, 70.0446844, 70.0227456, 70.05018737, 70.1693646, 70.0446844, 70.0227456, 70.05018737, 70.1693646, 70.07518572, 70.08539069, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 70.0950508, 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