

# Report template

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## Cover\_type

Cover\_Type

1 2160

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dtype: int64

shape

(15120, 55)

## dtypes

Elevation int64

Aspect int64

Slope int64

Horizontal\_Distance\_To\_Hydrology int64

Vertical\_Distance\_To\_Hydrology int64

Horizontal\_Distance\_To\_Roadways int64

Hillshade\_9am int64

Hillshade\_Noon int64

Hillshade\_3pm int64

Horizontal\_Distance\_To\_Fire\_Points int64

dtype: object

skew

Elevation 0.075640

Aspect 0.450935

Slope 0.523658

Horizontal\_Distance\_To\_Hydrology 1.488052

Vertical\_Distance\_To\_Hydrology 1.537776

Horizontal\_Distance\_To\_Roadways 1.247811

Hillshade\_9am -1.093681

Hillshade\_Noon -0.953232

Hillshade\_3pm -0.340827

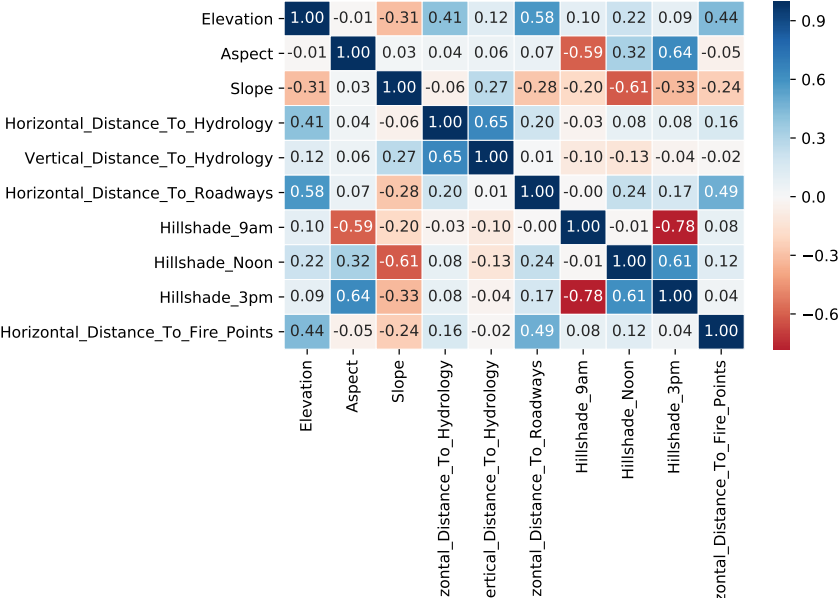
Horizontal\_Distance\_To\_Fire\_Points 1.617099

dtype: float64

description

	Elevation	Aspect	Slope	Horizontal_Distance	Vertical_Distance	Horizontal_Distance	Vertical_Distance	Horizontal_Distance	Vertical_Distance	Horizontal_Distance	Vertical_Distance
count	15120	15120	15120	15120	15120	15120	15120	15120	15120	15120	15120
mean	2749.32	156.68	16.5	227.2	51.08	1714.02	212.7	218.97	135.09	1511.15	1511.15
std	417.68	110.09	9.45	210.08	61.24	1325.07	30.56	22.8	45.9	1099.94	1099.94
min	1863	0	0	0	-146	0	0	99	0	0	0
25%	2376	65	10	67	5	764	196	207	106	730	730
50%	2752	126	15	180	32	1316	220	223	138	1256	1256
75%	3104	261	22	330	79	2270	235	235	167	1988.25	1988.25
max	3849	360	52	1343	554	6890	254	254	248	6993	6993

Corr



select\_method

```
1 def drop_by_cor(feature_df, threshold=0.9):  
2     corr_matrix = feature_df.corr().abs()  
3     upper =  
4         corr_matrix.where(np.triu(np.ones(corr_matrix.shape),  
5                                     k=1).astype(np.bool))  
6     to_drop = [column for column in upper.columns if  
7                 any(upper[column] > threshold)]  
8     return to_drop
```



features\_remain\_with\_thres\_as\_70

9 Aspect, Horizontal\_Distance\_To\_Fire\_Points, Vertical\_Distance\_To\_Hydrology,  
Horizontal\_Distance\_To\_Roadways, Elevation, Slope,  
Horizontal\_Distance\_To\_Hydrology, Hillshade\_9am, Hillshade\_Noon