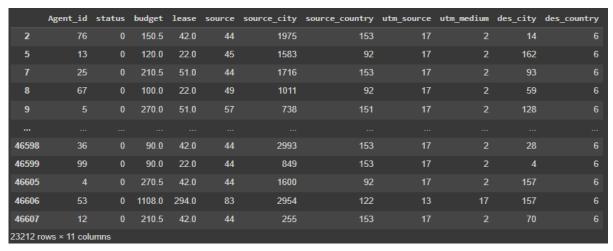
Assigning Lead Score Model

- Built an ML model using Support Vector Machine Model to predict the lead score as an OUTPUT on the basis of various INPUT sets of features.
 - The model generated an accuracy of 65%.

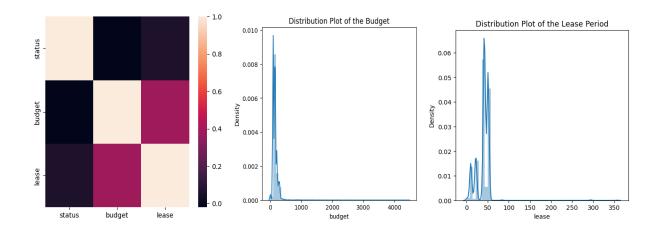
Data Cleaning

	Α	В	С	D	E	F	G	н	T.	J	K	L	M	N	0	P
1		Agent_id	status	lost_reason	budget	lease	movein	source	source_city	source_country	utm_source	utm_medium	des_city	des_country	room_type	lead_id
2	0	1deba9e96f4046	LOST	Not responding				9b2d5b4678781	9b2d5b4678781	9b2d5b4678781	3d59f7548e1af2	268ad70eb5bc4	ecc0e7dc084f14	8d23a6e37e0a6	431a8f1b43a910	cd5dc0d9393f39
3	1	299ae77a4ef350	LOST	Low budget				9b2d5b4678781	9b2d5b4678781	9b2d5b4678781	3d59f7548e1af2	268ad70eb5bc4	5372372f3bf589	8d23a6e37e0a6	431a8f1b43a910	b94693673a5f71
4	2	c213697430c00	LOST	Not responding	£121 - £180 Per	Full Year Course	31/08/22	7aae3e886e89fe	9b8cc3c63cdf44	e09e10e67812e	bbdefa2950f498	09076eb7665d1	11ab03a1a8c36	8d23a6e37e0a6	Ensuite	96ea4e2bf04496
5	3	eac9815a500f90	LOST	Low budget	0-0	0		ba2d0a29556ac	a5f0d2d08eb059	e09e10e67812e	bbdefa2950f498	09076eb7665d1	19372fa44c57al	8d23a6e37e0a6	431a8f1b43a910	1d2b34d8add02
6	4	1deba9e96f4046	LOST	Junk lead				9b2d5b4678781	9b2d5b4678781	9b2d5b4678781	3d59f7548e1af2	268ad70eb5bc4	9b2d5b4678781	9b2d5b4678781	e53038e91ea532	2 fc10fffd29cfbe93
7	5	2306878a9ad9b	LOST	Wants private accommo	120	semester-stay		7bcfca0e9d7337	7b7f15f9ffbeb90	8da82000ef9c44	bbdefa2950f498	09076eb7665d1	f19d051291d43	8d23a6e37e0a6	431a8f1b43a910	b26f82b657d94€
8	6	2306878a9ad9b	LOST	Short stay	0-0	0		9ba9134a91cfc6	3c1def48af45cb	e09e10e67812e	4688fa9ce4f64d	09076eb7665d1	ecc0e7dc084f14	8d23a6e37e0a6	431a8f1b43a910	7ea9868bb6b4e
9	7	44864c96fa1c36	LOST	Wants private accommo	£181 - £240 Per	51	08/09/22	7aae3e886e89fe	8593b9db65212	e09e10e67812e	bbdefa2950f498	09076eb7665d1	8593b9db65212	8d23a6e37e0a6	Entire Place	96ea4e2bf04496
10	8	ab6bb4584e994	LOST	Low budget	100	Semester Stay 2	0 - 24 weeks	869105a4ce02fd	4fa64bd55d5c0c	8da82000ef9c44	bbdefa2950f498	09076eb7665d1	5372372f3bf589	8d23a6e37e0a6	431a8f1b43a910	b26f82b657d94e
11	9	131127203c89el	LOST	Booked with manager	270	51		9ba9134a91cfc6	39ae78ec341cd	dfaa6c4bc17102	bbdefa2950f498	09076eb7665d1	bf5ade33b5b47	8d23a6e37e0a6	i431a8f1b43a910	dfafe38c19093c
12	10	2fca346db65618	LOST	Low availability	150	semester-stay		7bcfca0e9d7337	b2586a6cef5690	e09e10e67812e	bbdefa2950f498	09076eb7665d1	5e02dadaa7e4d	8d23a6e37e0a6	431a8f1b43a910	7ea9868bb6b4e
13	11	d4192f06768ab0	LOST	Not responding	£121 - £180 Per	Full Year Course	15/09/22	7aae3e886e89fe	1f8d4925b8e2af	e09e10e67812e	bbdefa2950f498	09076eb7665d1	11ab03a1a8c36	8d23a6e37e0a6	Ensuite	350c5ab8ccefe5
14	12	44864c96fa1c36	LOST	Wants private accommo	£121 - £180 Per	Full Year Course	02/09/22	7aae3e886e89fe	b1d2dad941873	e09e10e67812e	bbdefa2950f498	09076eb7665d1	8593b9db65212	8d23a6e37e0a6	Entire Place	2d664bae493ee
15	13	50750ee66f2765	LOST	Not responding	£181 - £240 Per	Complete Educa	04/09/22	7aae3e886e89fe	912b4e4c70521	e09e10e67812e	bbdefa2950f498	09076eb7665d1	810c069040f6a	8d23a6e37e0a6	Entire Place	12a382afc12ec3
16	14	a9f80b4eaba3fd	LOST	Low budget	100	full-course-stay		7bcfca0e9d7337	95d8f2913f79b6	8da82000ef9c44	bbdefa2950f498	09076eb7665d1	a8d85a214c143	8d23a6e37e0a6	431a8f1b43a910	4c354049e8889
17	15	a9f80b4eaba3fd	LOST	Not responding	180	full-course-stay		7bcfca0e9d7337	9c9f1252b350e4	38fe804a1f9ec0	bbdefa2950f498	09076eb7665d1	ecc0e7dc084f14	8d23a6e37e0a6	431a8f1b43a910	0618f4efaac0fd1

Converted the above data to the following

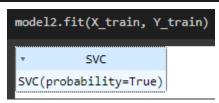


Data Analysis



Training and Predicting the Model





Training set evaluation:

Accuracy: 0.6362
Precision: 0.6083
Recall: 0.7659
F1-score: 0.6780

Test set evaluation:

Accuracy: 0.6049
Precision: 0.5839
Recall: 0.7263
F1-score: 0.6473

Providing Lead Score

